Bid Tabulation Packet
for
Solicitation 684

Swimming Pool & Water Treatment Chemicals

Bid Designation: Public

Capitol Region Council of Governments
# Bid #684 - Swimming Pool & Water Treatment Chemicals

**Creation Date:** Feb 13, 2019  
**Start Date:** Mar 7, 2019 8:53:58 AM EST  
**End Date:** Mar 27, 2019 10:00:00 AM EDT  
**Awarded Date:** Not Yet Awarded

### 684--01-01  Sodium Hypochlorite 12.5% available chlorine, 5 gallon carboys

<table>
<thead>
<tr>
<th>Supplier</th>
<th>Unit Price</th>
<th>Qty/Unit</th>
<th>Total Price</th>
<th>Attach.</th>
<th>Docs</th>
</tr>
</thead>
<tbody>
<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>First Offer - $0.00</td>
<td>1 / gallon</td>
<td>$0.00</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Savol</td>
<td>First Offer - $2.95</td>
<td>1 / gallon</td>
<td>$2.95</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Leslies Poolmart Inc. [Ad]</td>
<td>First Offer - $3.37</td>
<td>1 / gallon</td>
<td>$3.37</td>
<td>Y</td>
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### 684--01-02  Sodium Hypochlorite 12.5% available chlorine, 55 gallon drums

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<th>Total Price</th>
<th>Attach.</th>
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<tbody>
<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>First Offer - $0.00</td>
<td>1 / gallon</td>
<td>$0.00</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Savol</td>
<td>First Offer - $2.65</td>
<td>1 / gallon</td>
<td>$2.65</td>
<td>Y</td>
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### 684--01-03  Sodium Hypochlorite 12.5% available chlorine, bulk

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<th>Attach.</th>
<th>Docs</th>
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</thead>
<tbody>
<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>First Offer - $0.00</td>
<td>13500 / gallon</td>
<td>$0.00</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Savol</td>
<td>First Offer - $2.70</td>
<td>13500 / gallon</td>
<td>$36,450.00</td>
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</tr>
<tr>
<td>H. Krevit &amp; Co., Inc. [Ad]</td>
<td>First Offer - $2.80</td>
<td>13500 / gallon</td>
<td>$37,800.00</td>
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</tbody>
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**HQ Krevit & Co., Inc.**

- **Address:** 684 Welton Street
- **Website:** [Website](http://www.hkrevit.com)
- **Contact:** a_murthy@hkrevit.com

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**Additional Information:**

- **Product Code:**
  - 684--01-01: Sodium Hypochlorite 12.5% available chlorine, 5 gallon carboys
  - 684--01-02: Sodium Hypochlorite 12.5% available chlorine, 55 gallon drums
  - 684--01-03: Sodium Hypochlorite 12.5% available chlorine, bulk

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**Price Details:**

- **Sodium Hypochlorite 12.5% available chlorine, 5 gallon carboys**
  - George S. Coyne Chemical Co., Inc: $0.00
  - Savol: $2.95
  - Leslies Poolmart Inc. [Ad]: $3.37

- **Sodium Hypochlorite 12.5% available chlorine, 55 gallon drums**
  - George S. Coyne Chemical Co., Inc: $0.00
  - Savol: $2.65

- **Sodium Hypochlorite 12.5% available chlorine, bulk**
  - George S. Coyne Chemical Co., Inc: $0.00
  - Savol: $2.70
  - H. Krevit & Co., Inc. [Ad]: $2.80

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**Quantity/Unit:**

- 1 / gallon
- 1 / pound
- 1 / bag
- 1 / pound
- 1 / gallon
- 1 / pail
- 1 / gallon
- 1 / each
- 1 / gallon
- 1 / gallon
- 1 / gallon
- 1 / gallon

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**End Date:** Mar 27, 2019 10:00:00 AM EDT  
**Awarded Date:** Not Yet Awarded
### 684--01-04  Sodium Hypochlorite 15% available chlorine, 5 gallon carboys

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<th>Attch.</th>
<th>Docs</th>
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</thead>
<tbody>
<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>First Offer - $0.00</td>
<td>1 / gallon</td>
<td>$0.00</td>
<td>Y</td>
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<td><strong>Product Code:</strong></td>
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<td><strong>Supplier Notes:</strong></td>
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<tr>
<td>Savol</td>
<td>First Offer - $2.95</td>
<td>1 / gallon</td>
<td>$2.95</td>
<td>Y</td>
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### 684--01-05  Sodium Hypochlorite 15% available chlorine, bulk

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<th>Docs</th>
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<tbody>
<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>First Offer - $0.00</td>
<td>1 / gallon</td>
<td>$0.00</td>
<td>Y</td>
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<td><strong>Supplier Notes:</strong></td>
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</tr>
<tr>
<td>Savol</td>
<td>First Offer - $2.70</td>
<td>1 / gallon</td>
<td>$2.70</td>
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<table>
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<tr>
<th>Supplier</th>
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<th>Total Price</th>
<th>Attch.</th>
<th>Docs</th>
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</thead>
<tbody>
<tr>
<td>H. Krevit &amp; Co., Inc. [Ad]</td>
<td>First Offer - $2.80</td>
<td>1 / gallon</td>
<td>$2.80</td>
<td>Y</td>
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### 684--01-06  Calcium Hypochlorite HTH Granular, 100 pound drum

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<th>Total Price</th>
<th>Attch.</th>
<th>Docs</th>
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<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>Alt 1 - $179.402</td>
<td>15 / drums</td>
<td>$2,691.03</td>
<td>Y</td>
<td>Y</td>
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<td><strong>Supplier Notes:</strong></td>
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<tr>
<td>Savol</td>
<td>First Offer - $202.00</td>
<td>15 / drums</td>
<td>$3,030.00</td>
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### 684--01-07  Aluminum Sulfate Granular, 100 pound bags

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<tbody>
<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>First Offer - $0.00</td>
<td>1 / pound</td>
<td>$0.00</td>
<td>Y</td>
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### Product Code: 684--01-08  Soda Ash, 50 pound bags

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<th>Docs</th>
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<tbody>
<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>First Offer - $0.00</td>
<td>1 / bag</td>
<td>$0.00</td>
<td>Y</td>
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</tr>
<tr>
<td>Leslies Poolmart Inc. [Ad]</td>
<td>First Offer - $0.40</td>
<td>1 / bag</td>
<td>$0.40</td>
<td>Y</td>
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</tr>
<tr>
<td>Savol</td>
<td>First Offer - $24.95</td>
<td>1 / bag</td>
<td>$24.95</td>
<td>Y</td>
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</tbody>
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### Product Code: 684--01-09  Soda Ash, bulk

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<th>Docs</th>
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<tbody>
<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>First Offer - $0.00</td>
<td>1 / pound</td>
<td>$0.00</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Savol</td>
<td>First Offer - $24.95</td>
<td>1 / bag</td>
<td>$24.95</td>
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### Product Code: 684--01-10  Diatomite Filer celite #545/Equivalent, 50 pound bags

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<th>Docs</th>
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</thead>
<tbody>
<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>First Offer - $0.00</td>
<td>1 / bag</td>
<td>$0.00</td>
<td>Y</td>
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</tr>
<tr>
<td>Leslies Poolmart Inc. [Ad]</td>
<td>First Offer - $0.6875</td>
<td>1 / bag</td>
<td>$0.6875</td>
<td>Y</td>
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<tr>
<td>Savol</td>
<td>First Offer - $19.95</td>
<td>1 / bag</td>
<td>$19.95</td>
<td>Y</td>
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### Product Code: 684--01-11  Algicide, 1 gallon container

<table>
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<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>First Offer - $0.00</td>
<td>1 / gallon</td>
<td>$0.00</td>
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<td>Y</td>
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<tr>
<td><strong>Savol</strong></td>
<td>First Offer - $9.50</td>
<td>1 / gallon</td>
<td>$9.50</td>
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**684--01-12 Phenol Red Indicator**

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<tbody>
<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>First Offer - $0.00</td>
<td>1 / pint</td>
<td>$0.00</td>
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<td>Y</td>
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<tr>
<td>Leslies Poolmart Inc. [Ad]</td>
<td>First Offer - $18.60</td>
<td>1 / pint</td>
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<tr>
<td>Savol</td>
<td>First Offer - $20.25</td>
<td>1 / pint</td>
<td>$20.25</td>
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**684--01-13 Muriatic Acid, 1 gallon containers**

<table>
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<th>Qty/Unit</th>
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<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>First Offer - $0.00</td>
<td>1 / gallon</td>
<td>$0.00</td>
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<td>Y</td>
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<td>Leslies Poolmart Inc. [Ad]</td>
<td>First Offer - $3.75</td>
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<td>$3.75</td>
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**684--01-14 Muriatic Acid, 15 gallon container**

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<td>George S. Coyne Chemical Co., Inc</td>
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<td>1 / gallon</td>
<td>$0.00</td>
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**684--01-15 Sodium Metabisulfite Solution 38% to 40%**

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<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>First Offer - $0.00</td>
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<tr>
<td>684--01--16</td>
<td>George S. Coyne Chemical Co., Inc</td>
<td>First Offer - $0.00</td>
<td>1 / pound</td>
<td>$0.00</td>
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<td>684--01--16</td>
<td>Savol</td>
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<td>684--01--18</td>
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<tr>
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<td>First Offer - $0.00</td>
<td>1 / bag</td>
<td>$0.00</td>
<td>Y</td>
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<td><strong>Product Code:</strong></td>
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<tr>
<td>Leslies Poolmart Inc. [Ad]</td>
<td>First Offer - $19.00</td>
<td>1 / bag</td>
<td>$19.00</td>
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<td>Savol</td>
<td>First Offer - $23.95</td>
<td>1 / bag</td>
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<td>Agency Notes:</td>
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### 684--01--20 Superblue Crystal Clear

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<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>First Offer - $0.00</td>
<td>1 / gallon</td>
<td>$0.00</td>
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<td>Agency Notes:</td>
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<tr>
<td>Savol</td>
<td>First Offer - $24.95</td>
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<td>$24.95</td>
<td>Y</td>
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<td>Agency Notes:</td>
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<tr>
<td>Leslies Poolmart Inc. [Ad]</td>
<td>First Offer - $47.85</td>
<td>1 / gallon</td>
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<td>Agency Notes:</td>
<td>14934</td>
<td>Substituted Clearex 500</td>
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### 684--01--21 Potassium Permanganate

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<tbody>
<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>First Offer - $0.00</td>
<td>1 / pound</td>
<td>$0.00</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td><strong>Product Code:</strong></td>
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<td>Agency Notes:</td>
<td>No Bid</td>
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<tr>
<td>Chemrite, Inc.</td>
<td>First Offer - $1.68</td>
<td>1 / pound</td>
<td>$1.68</td>
<td>Y</td>
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<tr>
<td><strong>Product Code:</strong></td>
<td><strong>Supplier Product Code:</strong></td>
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### 684--01--22 Sodium Hydroxide, 50% solution

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<th>Docs</th>
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</thead>
<tbody>
<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>First Offer - $0.00</td>
<td>1 / gallon</td>
<td>$0.00</td>
<td>Y</td>
<td></td>
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<tr>
<td><strong>Product Code:</strong></td>
<td><strong>Supplier Product Code:</strong></td>
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<td>Agency Notes:</td>
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### 684--01--23 Sodium Hydroxide, 25%

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<th>Docs</th>
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<tbody>
<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>First Offer - $0.00</td>
<td>1 / gallon</td>
<td>$0.00</td>
<td>Y</td>
<td></td>
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<tr>
<td><strong>Product Code:</strong></td>
<td><strong>Supplier Product Code:</strong></td>
<td><strong>Supplier Notes:</strong></td>
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<tr>
<td>Agency Notes:</td>
<td>No Bid</td>
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<tr>
<td>H. Kret &amp; Co., Inc. [Ad]</td>
<td>First Offer - $1.43</td>
<td>1 / gallon</td>
<td>$1.43</td>
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<td><strong>Product Code:</strong></td>
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<tr>
<td>Agency Notes:</td>
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<tr>
<td>Supplier</td>
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<td>Qty/Unit</td>
<td>Total Price</td>
<td>Attch.</td>
<td>Docs</td>
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</tr>
<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>First Offer - $0.00</td>
<td>1 / bag</td>
<td>$0.00</td>
<td>Y</td>
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<td><strong>Product Code:</strong></td>
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<td><strong>Agency Notes:</strong></td>
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<tr>
<td>Savol</td>
<td>First Offer - $41.00</td>
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<td><strong>Agency Notes:</strong></td>
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<th>Attach.</th>
<th>Docs</th>
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<tr>
<td>Leslies Poolmart Inc. [Ad]</td>
<td>First Offer - $19.50</td>
<td>1 / pail</td>
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<td><strong>Agency Notes:</strong></td>
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<tr>
<td>Savol</td>
<td>First Offer - $30.95</td>
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<td>$30.95</td>
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<td><strong>Product Code:</strong></td>
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<td><strong>Agency Notes:</strong></td>
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<tr>
<td>Leslies Poolmart Inc. [Ad]</td>
<td>First Offer - $22.58</td>
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<td>Supplier Notes:</td>
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<tr>
<td>Leslies Poolmart Inc. [Ad]</td>
<td>First Offer - $5.75</td>
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<td>Savol</td>
<td>First Offer - $69.95</td>
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<td>$69.95</td>
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<td>Test Kits</td>
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<td>Supplier Notes:</td>
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<tr>
<td>Savol</td>
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<td>1 / each</td>
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<td>Alt 1 - $149.00</td>
<td>1 / each</td>
<td>$149.00</td>
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<td>K2005C</td>
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<td>Supplier Notes:</td>
<td>Taylor K2005C with 2 ounce reagents</td>
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<td>Pulsar Plus Briquette Calcium Hypochlorite, 65% active</td>
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<tr>
<td>George S. Coyne Chemical Co., Inc</td>
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<td>1 / pail</td>
<td>$0.00</td>
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<td>Supplier Notes:</td>
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### 684--01-31 Sodium Permanganate

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<td>Carus Corporation</td>
<td>First Offer - $7.6616</td>
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<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>Alt 1 - $9.271</td>
<td>1 / gallon</td>
<td>$9.271</td>
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<tr>
<td>Chemrite, Inc.</td>
<td>First Offer - $9.34</td>
<td>1 / gallon</td>
<td>$9.34</td>
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</tr>
<tr>
<td><strong>Product Code:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Agency Notes:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Supplier Notes:** Price per gallon. Package size 330 gal. totes.

**Supplier Notes:** Price per gallon. Package size 55 gal. drums.

### 684--01-32 Zetag 7587 Dry Polymer

<table>
<thead>
<tr>
<th>Supplier</th>
<th>Unit Price</th>
<th>Qty/Unit</th>
<th>Total Price</th>
<th>Atch.</th>
<th>Docs</th>
</tr>
</thead>
<tbody>
<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>First Offer - $2.3379</td>
<td>1 / pound</td>
<td>$2.3379</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td><strong>Product Code:</strong></td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td><strong>Agency Notes:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leslies Poolmart Inc. [Ad]</td>
<td>First Offer - $2.69</td>
<td>1 / pound</td>
<td>$2.69</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td><strong>Product Code:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Agency Notes:</strong></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**Supplier Notes:** Price per pound. Package size 55.12 lb. bags. Minimum 36 bags / delivery.

### 684--01-33 Winter Tabs

<table>
<thead>
<tr>
<th>Supplier</th>
<th>Unit Price</th>
<th>Qty/Unit</th>
<th>Total Price</th>
<th>Atch.</th>
<th>Docs</th>
</tr>
</thead>
<tbody>
<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>First Offer - $0.00</td>
<td>1 / pound</td>
<td>$0.00</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td><strong>Product Code:</strong></td>
<td></td>
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<td></td>
</tr>
<tr>
<td><strong>Agency Notes:</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Leslies Poolmart Inc. [Ad]</td>
<td>First Offer - $2.69</td>
<td>1 / pound</td>
<td>$2.69</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td><strong>Product Code:</strong></td>
<td></td>
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<td></td>
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<tr>
<td><strong>Agency Notes:</strong></td>
<td></td>
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</tr>
</tbody>
</table>

**Supplier Notes:** No Bid

### 684--01-34 Non-Copper Algicide

<table>
<thead>
<tr>
<th>Supplier</th>
<th>Unit Price</th>
<th>Qty/Unit</th>
<th>Total Price</th>
<th>Atch.</th>
<th>Docs</th>
</tr>
</thead>
<tbody>
<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>First Offer - $0.00</td>
<td>1 / gallon</td>
<td>$0.00</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td><strong>Product Code:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td><strong>Agency Notes:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Savol</td>
<td>First Offer - $9.95</td>
<td>1 / gallon</td>
<td>$9.95</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td><strong>Product Code:</strong></td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td><strong>Agency Notes:</strong></td>
<td></td>
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</tbody>
</table>
### 684--01--35  Fresh N Klear

<table>
<thead>
<tr>
<th>Supplier</th>
<th>Unit Price</th>
<th>Qty/Unit</th>
<th>Total Price</th>
<th>Atch.</th>
<th>Docs</th>
</tr>
</thead>
<tbody>
<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>First Offer - $0.00</td>
<td>1 / pound</td>
<td>$0.00</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Supplier Product Code:</td>
<td>Supplier Notes:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leslies Poolmart Inc. [Ad]</td>
<td>First Offer - $2.53</td>
<td>1 / pound</td>
<td>$2.53</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Supplier Product Code:</td>
<td>Supplier Notes: No Bid</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Savol</td>
<td>First Offer - $3.80</td>
<td>1 / pound</td>
<td>$3.80</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Supplier Product Code:</td>
<td>Supplier Notes: Potassium Monopersulfate - not Fresh N Klear brand</td>
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### 684--01--36  Sea Klear

<table>
<thead>
<tr>
<th>Supplier</th>
<th>Unit Price</th>
<th>Qty/Unit</th>
<th>Total Price</th>
<th>Atch.</th>
<th>Docs</th>
</tr>
</thead>
<tbody>
<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>First Offer - $0.00</td>
<td>1 / case</td>
<td>$0.00</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Supplier Product Code:</td>
<td>Supplier Notes: No Bid</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leslies Poolmart Inc. [Ad]</td>
<td>First Offer - $153.36</td>
<td>1 / case</td>
<td>$153.36</td>
<td>Y</td>
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</tr>
<tr>
<td>Supplier Product Code:</td>
<td>Supplier Notes: 200732</td>
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<td></td>
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</tr>
<tr>
<td>Supplier Notes: Twelve one quart bottles</td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Savol</td>
<td>First Offer - $225.00</td>
<td>1 / case</td>
<td>$225.00</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Supplier Product Code:</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Supplier Notes:</td>
<td></td>
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</table>

### 684--01--37  Granular Chlorine

<table>
<thead>
<tr>
<th>Supplier</th>
<th>Unit Price</th>
<th>Qty/Unit</th>
<th>Total Price</th>
<th>Atch.</th>
<th>Docs</th>
</tr>
</thead>
<tbody>
<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>First Offer - $0.00</td>
<td>1 / pound</td>
<td>$0.00</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Supplier Product Code:</td>
<td>Supplier Notes: No Bid</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemrite, Inc.</td>
<td>First Offer - $1.45</td>
<td>1 / pound</td>
<td>$1.45</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Supplier Product Code:</td>
<td>Supplier Notes: ProChlo</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supplier Notes:</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Leslies Poolmart Inc. [Ad]</td>
<td>First Offer - $1.83</td>
<td>1 / pound</td>
<td>$1.83</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Supplier Product Code:</td>
<td>Supplier Notes: 14208</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>Supplier Notes: 50 pound</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Savol</td>
<td>Alt 1 - $3.68</td>
<td>1 / pound</td>
<td>$3.68</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Supplier Product Code:</td>
<td>Supplier Notes: 50# bucket</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supplier</td>
<td>Unit Price</td>
<td>Qty/Unit</td>
<td>Total Price</td>
<td>Attach.</td>
<td>Docs</td>
</tr>
<tr>
<td>----------</td>
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<td>---------</td>
<td>------</td>
</tr>
<tr>
<td><strong>Savin</strong></td>
<td>First Offer - $3.99</td>
<td>1 / pound</td>
<td>$3.99</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td><strong>Chemrite, Inc.</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Leslies Poolmart Inc.</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>George S. Coyne Chemical Co., Inc</strong></td>
<td></td>
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</tr>
</tbody>
</table>

### 684--01-38  Non-toxic Antifreeze

<table>
<thead>
<tr>
<th>Supplier</th>
<th>Unit Price</th>
<th>Qty/Unit</th>
<th>Total Price</th>
<th>Attach.</th>
<th>Docs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>George S. Coyne Chemical Co., Inc</strong></td>
<td>First Offer - $0.00</td>
<td>1 / gallon</td>
<td>$0.00</td>
<td></td>
<td>Y</td>
</tr>
<tr>
<td><strong>Savin</strong></td>
<td>First Offer - $3.95</td>
<td>1 / gallon</td>
<td>$3.95</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td></td>
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</tr>
</tbody>
</table>
### 684--01-39  Container Deposit: Potassium Hydroxide 660 lb. drum

<table>
<thead>
<tr>
<th>Supplier</th>
<th>Unit Price</th>
<th>Qty/Unit</th>
<th>Total Price</th>
<th>Attach.</th>
<th>Docs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>George S. Coyne Chemical Co., Inc</strong></td>
<td>First Offer - $0.00</td>
<td>1 / drum</td>
<td>$0.00</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td><strong>Savin</strong></td>
<td>First Offer - $10.00</td>
<td>1 / each</td>
<td>$10.00</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
### 684--01-40  Container Deposit: Plastic Carboys

<table>
<thead>
<tr>
<th>Supplier</th>
<th>Unit Price</th>
<th>Qty/Unit</th>
<th>Total Price</th>
<th>Attach.</th>
<th>Docs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>George S. Coyne Chemical Co., Inc</strong></td>
<td>First Offer - $0.00</td>
<td>1 / each</td>
<td>$0.00</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td><strong>Savin</strong></td>
<td>First Offer - $10.00</td>
<td>1 / each</td>
<td>$10.00</td>
<td>Y</td>
<td></td>
</tr>
<tr>
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</tr>
</tbody>
</table>
### 684--01-41  Sodium Bi-Sulfite (NaSO3) 38% solution

<table>
<thead>
<tr>
<th>Supplier</th>
<th>Unit Price</th>
<th>Qty/Unit</th>
<th>Total Price</th>
<th>Attach.</th>
<th>Docs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>George S. Coyne Chemical Co., Inc</strong></td>
<td>First Offer - $0.00</td>
<td>1 / gallon</td>
<td>$0.00</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td><strong>Holland Company Inc</strong></td>
<td>First Offer - $1.65</td>
<td>1 / gallon</td>
<td>$1.65</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
### 684--01-42  Sodium Hypochlorite (NaOCL) 15% solution

<table>
<thead>
<tr>
<th>Supplier</th>
<th>Unit Price</th>
<th>Qty/Unit</th>
<th>Total Price</th>
<th>Attach.</th>
<th>Docs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>George S. Coyne Chemical Co., Inc</strong></td>
<td>First Offer - $0.00</td>
<td>1 / gallon</td>
<td>$0.00</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td><strong>Savin</strong></td>
<td>First Offer - $2.70</td>
<td>1 / gallon</td>
<td>$2.70</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Supplier Product Code:</td>
<td>Supplier Notes:</td>
<td>Unit Price</td>
<td>Qty/Unit</td>
<td>Total Price</td>
<td>Attach.</td>
</tr>
<tr>
<td>-----------------------</td>
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</tr>
<tr>
<td>Supplier Product Code:</td>
<td>Supplier Notes:</td>
<td>$2.80</td>
<td>1 / gallon</td>
<td>$2.80</td>
<td>Y</td>
</tr>
<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>125-499 gals $2.80/gal</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>500-999 gals $2.51/gal</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1000-1499 gals $1.55/gal</td>
<td></td>
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<tr>
<td></td>
<td>1500-1999 gals $1.28/gal</td>
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<tr>
<td></td>
<td>2000-2499 gals $1.12/gal</td>
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<tr>
<td></td>
<td>2500-2999 gals $1.04/gal</td>
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<tr>
<td></td>
<td>3000-3499 gals $0.99/gal</td>
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<tr>
<td></td>
<td>3500-3999 gals $0.97/gal</td>
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<tr>
<td></td>
<td>4000-4499 gals $0.93/gal</td>
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<tr>
<td></td>
<td>4500-4999 gals $0.91/gal</td>
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<tr>
<td></td>
<td>5000 gals $0.89/gal</td>
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<tr>
<td>Product Code:</td>
<td>Agency Notes:</td>
<td>Supplier Product Code:</td>
<td>Supplier Notes:</td>
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</tr>
<tr>
<td>Poly Aluminum Chloride (Liquid) (PACL)</td>
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<tr>
<td>Supplier</td>
<td>Unit Price</td>
<td>Qty/Unit</td>
<td>Total Price</td>
<td>Attach.</td>
<td>Docs</td>
</tr>
<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>First Offer - $0.00</td>
<td>1 / gallon</td>
<td>$0.00</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Holland Company Inc</td>
<td>First Offer - $2.23</td>
<td>1 / gallon</td>
<td>$2.23</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Product Code:</td>
<td>Agency Notes:</td>
<td>Supplier Product Code:</td>
<td>Supplier Notes:</td>
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<td>----------------</td>
<td>-----------------------</td>
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</tr>
<tr>
<td>Polymer StaFloc 128</td>
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<tr>
<td>Supplier</td>
<td>Unit Price</td>
<td>Qty/Unit</td>
<td>Total Price</td>
<td>Attach.</td>
<td>Docs</td>
</tr>
<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>First Offer - $0.00</td>
<td>1 / gallon</td>
<td>$0.00</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>MicroC2000</td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Supplier</td>
<td>Unit Price</td>
<td>Qty/Unit</td>
<td>Total Price</td>
<td>Attach.</td>
<td>Docs</td>
</tr>
<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>First Offer - $0.00</td>
<td>1 / gallon</td>
<td>$0.00</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Supplier Totals</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>George S. Coyne Chemical Co., Inc</td>
<td>$2,702,638.90</td>
<td>(45/45 items)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bid Contact</td>
<td>Chris Miriello</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><a href="mailto:bidadministration@coynechemical.com">bidadministration@coynechemical.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>215-785-3000</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Agency Notes:</td>
<td>Supplier Notes:</td>
<td>Head Attach:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemrite, Inc.</td>
<td>$12.47</td>
<td>(3/45 items)</td>
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<td>Susan Kennedy</td>
<td></td>
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<td></td>
<td><a href="mailto:aaron@chemrite.com">aaron@chemrite.com</a></td>
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<tr>
<td><strong>Patrick Burke</strong></td>
<td><strong>Address:</strong> 153 Howland Ave</td>
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<td><a href="mailto:matt.holland@hollandcompany.com">matt.holland@hollandcompany.com</a></td>
<td><strong>Adams, MA 01220</strong></td>
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<td><strong>Supplier Notes:</strong></td>
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**
## George S. Coyne Chemical Co., Inc

**Bid Contact:** Chris Miriello  
**bidadministration@coynechemical.com**  
**Ph 215-785-3000**  
**Address:** 3015 State Road  
Croydon, PA 19021

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<th>Qty/Unit</th>
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<td>684--01-01</td>
<td>Sodium Hypochlorite 12.5% available chlorine, 5 gallon carboys</td>
<td>Supplier Product Code: Supplier Notes: No Bid</td>
<td>First Offer - $0.00</td>
<td>1 / gallon</td>
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<td>Y</td>
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<td>684--01-02</td>
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<td>684--01-03</td>
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<td>684--01-04</td>
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<td>684--01-06</td>
<td>Calcium Hypochlorite HTH Granular, 100 pound drum</td>
<td>Supplier Product Code: Supplier Notes: Pricing per drum. Package size 100 lb. drums. Alternate Bid: 5 drums minimum delivery.</td>
<td>Alt 1 - $179.402</td>
<td>15 / drums</td>
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<td>Muriatic Acid, 1 gallon containers</td>
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<td>Calcium Chloride, granular</td>
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<td>684--01-18</td>
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<td>Sodium Bicarbonate</td>
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<td>Sodium Hydroxide, 50% solution</td>
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<td>Chlorine Neutralizer</td>
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<td>Container Deposit: Potassium Hydroxide 660 lb. drum</td>
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Supplier Total $2,702.6389
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Safety Data Sheet

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name • Calcium Hypochlorite Granular

Synonyms • All-Clear™ ChlorRight; All-Clear™ Shock Clear; AmeriChlor Calcium Hypochlorite Granules; Assalt 73; BioGuard Burn Out 73; BioGuard CLC Classic; Ca(OCl)₂; Cal Hypo Granules; Calcium Hypochlorite; Calcium Hypochlorite Granular; Ideal Pool Products Super Shock 73; Induclor™; Induclor™ 70; More Chlor 65; Nature’s Way Super Pool Shock; Pittclor 70; Pittclor®; Power Powder® Plus; Power Powder® Pro; Prestochlor™; Pro Team Power 73; ProGuard; Refresh Dry Chlorinating Granular; Refresh®; Regal®; Repak™ + Granules; Repak™ Dry Chlorinating Granules; Super Pool Shock; Super Shock-It®; Super Shock-It® 73; Super Zappit™; Sustain® Shock Treatment; Tropiclear; Vanguard® Plus Calcium Hypochlorite Granules; Zappit™; Zappit™ 73

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s) • Industrial Application, Chlorine Disinfectant, Pool Chemicals

1.3 Details of the supplier of the safety data sheet

Manufacturer • Axiall, LLC

2801 Post Oak Blvd., Suite 600
Houston, TX 77056
United States
www.westlake.com
SDSinfo@westlake.com

Telephone (General) • +1 713-960-9111

1.4 Emergency telephone number

Manufacturer • +1 304-455-6882

Section 2: Hazards Identification

EU/EEC


2.1 Classification of the substance or mixture

CLP • Oxidizing Solids 2 - H272
Acute Toxicity Oral 4 - H302
Skin Corrosion 1B - H314
Serious Eye Damage 1 - H318
Hazardous to the aquatic environment Acute 1 - H400

2.2 Label Elements

CLP

DANGER
Hazard statements

- H272 - May intensify fire; oxidizer
- H302 - Harmful if swallowed
- H318 - Causes serious eye damage
- H314 - Causes severe skin burns and eye damage.
- H400 - Very toxic to aquatic life

Precautionary statements

**Prevention**

- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P220 - Keep/Store away from clothing and other combustible materials.
- P221 - Take any precaution to avoid mixing with combustibles
- P260 - Do not breathe dusts or mists.
- P264 - Wash thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

- P370+P378 - In case of fire: Use appropriate media to extinguish.
- P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P321 - Specific treatment, see supplemental first aid information.
- P363 - Wash contaminated clothing before reuse.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P301+P312 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.
- P330 - Rinse mouth.
- P331 - Do NOT induce vomiting.
- P391 - Collect spillage.

**Storage/Disposal**

- P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
- P405 - Store locked up.
- P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Supplemental information

- 0 - 3 percent of this product consists of an ingredient of unknown toxicity.

2.3 Other Hazards

**CLP**

- According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

---

**UN GHS Revision 3**

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS): Third Revised Edition

2.1 Classification of the substance or mixture

**UN GHS**

- Oxidizing Solids 2
- Acute Toxicity Oral 4
- Skin Corrosion 1B
- Serious Eye Damage 1
- Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
- Hazardous to the aquatic environment Acute 1
- Hazardous to the aquatic environment Chronic 1

2.2 Label elements

**UN GHS**

DANGER
Hazard statements

- May intensify fire; oxidizer
- Harmful if swallowed
- Causes serious eye damage
- May cause respiratory irritation
- Very toxic to aquatic life
- Very toxic to aquatic life with long lasting effects
- Causes severe skin burns and eye damage.

Precautionary statements

Prevention
- Keep away from heat.
- Keep/Store away from clothing and other combustible materials.
- Take any precaution to avoid mixing with combustibles.
- Do not breathe dusts or mists.
- Avoid breathing dust, fume, gas, mist, vapours and/or spray.
- Wash thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.
- Wear protective gloves/protective clothing/eye protection/face protection.

Response
- In case of fire: Use appropriate media for extinction.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Call a POISON CENTER or doctor/physician if you feel unwell.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Wash contaminated clothing before reuse.
- Specific treatment, see supplemental first aid information.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a POISON CENTER or doctor/physician.
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- Collect spillage.

Storage/Disposal
- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up.
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Supplemental information

- 0-3 percent of this product consists of an ingredient of unknown toxicity.

2.3 Other hazards

UN GHS
- According to the Globally Harmonized System for Classification and Labeling (GHS) this product is considered hazardous.

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012
- Oxidizing Solids 2
- Acute Toxicity Oral 4
- Skin Corrosion 1B
- Serious Eye Damage 1
- Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation

2.2 Label elements

OSHA HCS 2012
- DANGER
Hazard statements • May intensify fire; oxidizer
   Harmful if swallowed
   Causes severe skin burns and eye damage.
   Causes serious eye damage
   May cause respiratory irritation

Precautionary statements
Prevention • Keep away from heat.
   Keep/Store away from clothing and other combustible materials.
   Take any precaution to avoid mixing with combustibles
   Do not breathe dust.
   Wash thoroughly after handling.
   Do not eat, drink or smoke when using this product.
   Use only outdoors or in a well-ventilated area.
   Wear protective gloves/protective clothing/eye protection/face protection.

Response • In case of fire: Use appropriate media to extinguish.
   IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
   Call a POISON CENTER/doctor/ physician if you feel unwell.
   IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
   Wash contaminated clothing before reuse.
   Specific treatment, see supplemental first aid information.
   IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
   Immediately call a POISON CENTER/doctor/ physician.
   IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Storage/Disposal • Store in a well-ventilated place. Keep container tightly closed.
   Store locked up.
   Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Supplemental information • 0 - 3 percent of this product consists of an ingredient of unknown toxicity.

2.3 Other hazards

Canada
According to: WHMIS 2015

2.1 Classification of the substance or mixture
   WHMIS 2015 • Oxidizing Solids 2
   • Acute Toxicity Oral 4
   • Skin Corrosion 1B
   • Serious Eye Damage 1
   • Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation

2.2 Label elements
   WHMIS 2015

   DANGER

   Hazard statements • May intensify fire; oxidizer
Harmful if swallowed
Causes severe skin burns and eye damage.
Causes serious eye damage
May cause respiratory irritation

Precautionary statements

Prevention • Keep away from heat
Take any precaution to avoid mixing with combustibles
Keep away from clothing and other combustible materials.
Do not breathe dust.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
Wear fire resistant or flame retardant clothing.

Response • In case of fire: Use appropriate media to extinguish.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER/doctor if you feel unwell.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
Wash contaminated clothing before reuse.
Immediately call a POISON CENTER/doctor.
Specific treatment, see supplemental first aid information.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Storage/Disposal • Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Supplemental information • 0 - 3 percent of this product consists of an ingredient of unknown toxicity.

2.3 Other hazards

WHMIS 2015 • In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

3.1 Substances

• Material does not meet the criteria of a substance.

3.2 Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>%</th>
<th>LD50/LC50</th>
<th>Classifications According to Regulation/Directive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium hypochlorite</td>
<td>CAS:7778-54-3 EC Number:231-908-7 EU Index:017-012-00-7</td>
<td>65% TO 76%</td>
<td>NDA</td>
<td>EU CLP: Annex VI, Table 3.1: Ox. Sol. 2, H272; Acute Tox. 4 *, H302; Skin Corr. 1B, H314; Aquatic Acute 1, H400 UN GHS Revision 3: Ox. Sol. 2; Skin Corr. 1B; Eye Dam. 1; Acute Tox. 4 (Orl); STOT SE 3: Resp. Irrit; Aquatic Acute 1; Aquatic Chronic 1 OSHA HCS 2012: Ox. Sol. 2; Skin Corr. 1B; Eye Dam. 1; Acute Tox. 4 (Orl); STOT SE 3: Resp. Irrit. WHMIS 2015: Ox. Sol. 2; Skin Corr. 1B; Eye Dam. 1; Acute Tox. 4 (Orl); STOT SE 3: Resp. Irrit.</td>
</tr>
</tbody>
</table>
**Section 4 - First Aid Measures**

### 4.1 Description of first aid measures

**Inhalation**
- Move victim to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration. Do not use mouth-to-mouth method if victim inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a poison control center or doctor for further treatment advice.

**Skin**
- For minor skin contact, avoid spreading material on unaffected skin. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. Call a poison center or doctor for treatment advice.

**Eye**
- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. Remove contact lenses, if present after the first 5 minutes. Continue Rinsing. Call a poison control center or doctor for further treatment advice.

**Ingestion**
- If swallowed, seek medical attention immediately from poison control center or doctor. Have a person sip a glass of water, if able to swallow. Do not give anything by mouth to an unconscious person. Do not induce vomiting unless told to do so by the poison control center or doctor.

### 4.2 Most important symptoms and effects, both acute and delayed

- If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during, or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person. Refer to Section 11 - Toxicological Information.

### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to Physician**
- Probable mucosal damage may contraindicate the use of gastric lavage. All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

---

**See Section 16 for full text of H-statements.**
Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media
- Drench with large quantities of water only.

Unsuitable Extinguishing Media
- Do not use dry chemicals or foams. Product supplies own oxygen, therefore attempts to smother fire with a wet blanket, carbon dioxide, dry chemical extinguisher or other means are not effective. Product has the potential to cause a violent reaction if dry chemical fire extinguishers are used.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards
- Containers may explode when heated.
- May explode from heat or contamination.
- May ignite combustibles (wood, paper, oil, clothing, etc.)
- Runoff may create fire or explosion hazard.
- Some will react explosively with hydrocarbons (fuels)
- These substances will accelerate burning when involved in a fire.
- Emits toxic fumes under fire conditions.
- Chlorine gas may be generated.

Hazardous Combustion Products
- Depending on conditions, decomposition products may include the following materials: carbon oxides; halogenated compounds; metal oxide/oxides.

5.3 Advice for firefighters

- Structural firefighters’ protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.
- Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Wear positive pressure self-contained breathing apparatus (SCBA).
- SMALL FIRES: Move containers from fire area if you can do it without risk.
- Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.
- No action shall be taken involving any personal risk or without suitable training.
- This material is very toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions
- Use extreme caution in handling spilled material. Ventilate the area before entry. Use spark-proof tools and explosion-proof equipment. Do not walk through spilled material. Do not mix this product with any other chemicals, including any other pool chemicals of any kind, such as other disinfection or “shock” pool products. Contamination with moisture, acids, organic matter, other chemicals (including, but not limited to cleaning chemicals and other pool chemicals), petroleum or paint products or other easily combustible materials may start a chemical reaction with generation of heat, liberation of hazardous gases and possible violent reaction leading to fire or explosion. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Emergency Procedures
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Do not get water inside container.

6.2 Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up
- Avoid generating dust.
Measures

If fire or decomposition occurs in area of spill, immediately douse with plenty of water. Otherwise, sweep up all visible material using a clean (new, if possible), dry shovel and broom and immediately dissolve material in a water-filled container. Spilled material that has been swept up and dissolved in water should be used immediately in the normal application for which this product is being consumed.

6.4 Reference to other sections

- Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

- Use extreme caution in handling spilled material. Use only with adequate ventilation. Keep away from combustible material. Strong oxidizer. Contact with other material may cause fire. Use spark-proof tools and explosion-proof equipment. Do not mix this product with any other chemicals, including any other pool chemicals of any kind, such as other disinfection or "shock" pool products. Contamination with moisture, acids, organic matter, other chemicals (including, but not limited to cleaning chemicals and other pool chemicals), petroleum or paint products or other easily combustible materials may start a chemical reaction with generation of heat, liberation of hazardous gases and possible violent reaction leading to fire or explosion. Always add product to large quantities of water to fully dissolve product. Do not pour water into product, always add product to water. Use only a clean (new, if possible), dry scoop made of metal or plastic each time product is taken from the container. Do not use with stabilized chlorine or bromine tablet chemical feeders. Do not add this product to any dispensing device containing remnants of any other product or pool chemical. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not ingest. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Empty containers retain product residue and can be hazardous. Do not reuse container. Residual material remaining in empty container can react to cause fire. Thoroughly flush empty container with water then destroy by placing in trash collection.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Ventilate enclosed areas. Keep only in the original container. Keep container closed. Separate from acids, alkalis, reducing agents and combustibles. Product is an NFPA Class 3 oxidizer which can cause a severe increase in fire intensity. Store in a cool, dry, well-ventilated place. If product becomes contaminated or decomposes do not reseal container. If possible isolate container in open air or well-ventilated area.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

<table>
<thead>
<tr>
<th>Exposure Limits/Guidelines</th>
<th>ACGIH</th>
<th>Canada British Columbia</th>
<th>Canada Ontario</th>
<th>Canada Quebec</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium chloride (10043-52-4)</td>
<td>TWAs</td>
<td>Not established</td>
<td>Not established</td>
<td>5 mg/m3 TWA</td>
<td>Not established</td>
</tr>
<tr>
<td>Calcium hydroxide (1305-62-0)</td>
<td>TWAs</td>
<td>5 mg/m3 TWA</td>
<td>5 mg/m3 TWA</td>
<td>5 mg/m3 TWA</td>
<td>5 mg/m3 TWAEV</td>
</tr>
<tr>
<td>Calcium carbonate (471-34-1)</td>
<td>TWAs</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>10 mg/m3 TWAEV (total dust)</td>
</tr>
</tbody>
</table>
Exposure Limits/Guidelines (Con't.)

<table>
<thead>
<tr>
<th>Compound</th>
<th>Result</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium hydroxide (1305-62-0)</td>
<td>TWAs</td>
<td>15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

Engineering Measures/Controls

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

Personal Protective Equipment

Respiratory

- If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Eye/Face

- Wear chemical splash goggles and face shield.

Skin/Body

- Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. HANDS: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. GLOVES: Nitrile, neoprene, and butyl rubber.

Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene
NIOSH = National Institute of Occupational Safety and Health
OSHA = Occupational Safety and Health Administration
STEL = Short Term Exposure Limits are based on 15-minute exposures

Section 9 - Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Form</td>
<td>Solid</td>
<td></td>
</tr>
<tr>
<td>Appearance/Description</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Various colors.</td>
<td>Slight chlorine odor.</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
<td></td>
</tr>
</tbody>
</table>

General Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>170 to 180 °C(338 to 356 °F) Decomposes</td>
<td></td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>170 to 180 °C(338 to 356 °F)</td>
<td>Alkaline</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity/Relative Density</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Bulk Density</td>
<td>1 to 1.07 g/cm³</td>
<td></td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Soluble 100 %</td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
<td></td>
</tr>
</tbody>
</table>

Vocality

Preparation Date: 13/October/2015
Revision Date: 17/July/2018

Capitol Region Council of Governments

BidSync
9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- The product may not be stable under certain conditions of storage or use. Product decomposes at approximately 170-180°C (338-356°F) releasing oxygen gas and some chlorine gas.

10.3 Possibility of hazardous reactions

- Hazardous reactions or instability may occur under certain conditions of storage or use. Conditions may include the following: contact with combustible materials, contact with acids/ammonia. Reactions may include the following: risk of causing or intensifying fire, liberation of toxic gas.

10.4 Conditions to avoid

- Heating may cause a fire or explosion. Excessive heat will cause decomposition resulting in the release of oxygen and chlorine gas.

10.5 Incompatible materials

- Highly reactive or incompatible with the following materials: moisture, combustible materials, organic materials, metals, acids, alkalis, oxidizing materials, reducing materials, ammonia, petroleum products, paint products, wood and paper, and pool chemicals. Acid or ammonia contamination will release toxic gases.

10.6 Hazardous decomposition products

- Depending on conditions, product slowly releases chlorine gas.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Components</th>
<th>Acute Toxicity: Ingestion/Oral-Rat LD50 • 1 g/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium chloride (0.1%)</td>
<td>10043-52-4</td>
</tr>
<tr>
<td>Calcium hydroxide (1% TO 3%)</td>
<td>1305-62-0</td>
</tr>
<tr>
<td>Calcium carbonate (1% TO 3%)</td>
<td>471-34-1</td>
</tr>
</tbody>
</table>

Acute Toxicity: Ingestion/Oral-Rat LD50 • 7340 mg/kg; Irritation: Eye-Rabbit • 10 mg • Severe irritation

Acute Toxicity: Ingestion/Oral-Rat LD50 • 750 µg 24 Hour(s) • Severe irritation

Acute Toxicity: Ingestion/Oral-Rat LD50 • 3000 mg/kg;
Sodium chloride (10% TO 30%)  
7647-14-5  
Irritation:  
Eye-Rabbit • 100 mg 24 Hour(s) • Moderate irritation;  
Skin-Rabbit • 500 mg 24 Hour(s) • Mild irritation;  
Multi-dose Toxicity:  
Ingestion/Oral-Rat TDLo • 201.6 g/kg 6 Week(s)-Intermittent;  
Vascular: BP elevation not characterized in autonomic section;  
Mutagen:  
Unscheduled DNA synthesis • Ingestion/Oral-Rat • 16800 mg/kg 4 Week(s)-Continuous;  
Reproductive:  
Ingestion/Oral-Rat TDLo • 56400 mg/kg (SD pre-21D post);  
Reproductive Effects:  
Maternal Effects: Postpartum;  
Reproductive Effects: Effects on Newborn: Biochemical and metabolic

Calcium hypochlorite (65% TO 76%)  
7778-54-3  
Acute Toxicity:  
Ingestion/Oral-Rat LD50 • 850 mg/kg

GHS Properties | Classification
--- | ---
**Acute toxicity** | EU/CLP • Acute Toxicity - Oral 4 - ATEmix (Orl) = 1118 mg/kg  
UN GHS 3 • Acute Toxicity - Oral 4 - ATEmix (Orl) = 1054 mg/kg  
OSHA HCS 2012 • Acute Toxicity - Oral 4 - ATEmix (Orl) = 1054 mg/kg  
WHMIS 2015 • Acute Toxicity - Oral 4 - ATEmix (Orl) = 1054 mg/kg

Skin corrosion/Irritation | EU/CLP • Skin Corrosion 1B  
UN GHS 3 • Skin Corrosion 1B  
OSHA HCS 2012 • Skin Corrosion 1B  
WHMIS 2015 • Skin Corrosion 1B

Serious eye damage/Irritation | EU/CLP • Serious Eye Damage 1  
UN GHS 3 • Serious Eye Damage 1  
OSHA HCS 2012 • Serious Eye Damage 1  
WHMIS 2015 • Serious Eye Damage 1

Skin sensitization | EU/CLP • No data available  
UN GHS 3 • No data available  
OSHA HCS 2012 • No data available  
WHMIS 2015 • No data available

Respiratory sensitization | EU/CLP • No data available  
UN GHS 3 • No data available  
OSHA HCS 2012 • No data available  
WHMIS 2015 • No data available

Aspiration Hazard | EU/CLP • No data available  
UN GHS 3 • No data available  
OSHA HCS 2012 • No data available  
WHMIS 2015 • No data available

Carcinogenicity | EU/CLP • No data available  
UN GHS 3 • No data available  
OSHA HCS 2012 • No data available  
WHMIS 2015 • No data available

Germ Cell Mutagenicity | EU/CLP • No data available  
UN GHS 3 • No data available  
OSHA HCS 2012 • No data available  
WHMIS 2015 • No data available

Toxicity for Reproduction | EU/CLP • No data available  
UN GHS 3 • Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract
Potential Health Effects

Inhalation

Acute (Immediate) • May cause corrosive burns - irreversible damage. May cause respiratory irritation.

Chronic (Delayed) • Repeated or prolonged exposure to corrosive fumes may cause bronchial irritation with chronic cough.

Skin

Acute (Immediate) • Causes severe skin burns.

Chronic (Delayed) • Repeated or prolonged exposure to corrosive materials will cause dermatitis.

Eye

Acute (Immediate) • Causes serious eye damage. Direct contact with the eyes can cause irreversible damage, including blindness.

Chronic (Delayed) • Repeated or prolonged exposure to corrosive materials or fumes may cause conjunctivitis.

Ingestion

Acute (Immediate) • Harmful or fatal if swallowed. May cause irreversible damage to mucous membranes.

Chronic (Delayed) • Repeated or prolonged exposure to corrosive materials or fumes may cause gastrointestinal disturbances.

Carcinogenic Effects • This material contains components that may cause cancer, however, based on regulatory criteria this material is not classified as a carcinogen.

Key to abbreviations
LD = Lethal Dose
TD = Toxic Dose

Section 12 - Ecological Information

12.1 Toxicity

| CAS | Aquatic Toxicity-Fish: 96 Hour(s) LC50 Bluegill - Lepomis macrochirus 57-60 µg/L [Fresh water] Comments: Calcium hypochlorite 96 Hour(s) LC50 Atlantic silverside - Menidia menidia 37 µg/L [Marine water] Comments: Calcium hypochlorite 96 Hour(s) LC50 Bluegill - Lepomis macrochirus 1294600 µg/L [Fresh water] Comments: Sodium chloride 96 Hour(s) LC50 Guppy - Poecilia reticulata 356 mg/L [Marine water] Comments: Calcium hydroxide 96 Hour(s) NOEC Guppy - Poecilia reticulata 56 mg/L [Marine water] Comments: Calcium hydroxide Aquatic Toxicity-Crustacea: 48 Hour(s) EC50 Water flea - Daphnia magna 402600-469200 µg/L [Fresh water] Comments: Sodium chloride 48 Hour(s) EC50 Water flea - Daphnia magna 0.073-0.079 µg/L [Marine water] Comments: Calcium hydroxide | Calcium Hypochlorite Granular NDA |

- LC50: 0.088 mg/L (96 hr, Bluegill Sunfish) Very toxic to aquatic life. Do not allow to enter groundwater, surface water or drains.

12.2 Persistence and degradability
12.3 Bioaccumulative potential
- Material data lacking.

12.4 Mobility in Soil
- Material data lacking.

12.5 Results of PBT and vPvB assessment
- No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects
- No studies have been found.

### Section 13 - Disposal Considerations

#### 13.1 Waste treatment methods

**Product waste**
- The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Spilled material that has been swept up and dissolved in water should be used immediately in the normal application for which this product is being consumed. If this is not possible, material may be neutralized. Please contact Axiall Corporation Emergency Response team for guidance at 304-455-6882. Note: Only properly neutralized material should be flushed to sewer. Unneutralized material can cause environmental damage to receiving water or can interfere with treatment plant operation. Care must be taken when using or disposing of chemical materials and/or their containers to prevent environmental contamination. Empty containers retain product residue and can be hazardous. Residual material remaining in empty container can react to cause fire. Thoroughly flush empty container with water then destroy in trash collection. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Packaging waste**
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

### Section 14 - Transport Information

<table>
<thead>
<tr>
<th>DOT</th>
<th>UN number</th>
<th>14.2 UN proper shipping name</th>
<th>14.3 Transport hazard class(es)</th>
<th>14.4 Packing group</th>
<th>14.5 Environmental hazards</th>
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<td>Chronic Aquatic Toxicity</td>
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#### 14.6 Special precautions for user
- Under 49 CFR (DOT), non-bulk U.S. domestic shipments by ground do not require Marine Pollutant markings or labels, nor does Marine Pollutant need to be mentioned on shipping papers.

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
- Data lacking.
Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications
- Acute, Fire

FIFRA – Pesticide Labeling
This chemical is a pesticide product registered by the Environmental Protection Agency and is regulated under FIFRA. Pesticide products are exempt from TSCA and not subject to inventory requirements.
- This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

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<th>Canada NDSL</th>
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Canada

Labor
Canada - WHMIS - Classifications of Substances
- Calcium chloride 10043-52-4 D2B
- Calcium hypochlorite 7778-54-3 C, E
- Calcium chlorate 10137-74-3 Not Listed
- Calcium hydroxide 1305-62-0 E Uncontrolled product according to WHMIS classification criteria
- Sodium chloride 7647-14-5 Not Listed Uncontrolled product according to WHMIS classification criteria
- Calcium carbonate 471-34-1 Not Listed

Canada - WHMIS - Ingredient Disclosure List
- Calcium chloride 10043-52-4 Not Listed
- Calcium hypochlorite 7778-54-3 Not Listed
- Calcium chlorate 10137-74-3 Not Listed
- Calcium hydroxide 1305-62-0 1 %
- Sodium chloride 7647-14-5 Not Listed
- Calcium carbonate 471-34-1 Not Listed

Environment
Canada - CEPA - Priority Substances List
- Calcium chloride 10043-52-4 Not Listed
- Calcium hypochlorite 7778-54-3 Not Listed
- Calcium chlorate 10137-74-3 Not Listed
- Calcium hydroxide 1305-62-0 Not Listed

Preparation Date: 13/October/2015
Revision Date: 17/July/2018
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**United States**

**Labor**

**U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

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**U.S. - OSHA - Specifically Regulated Chemicals**

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**Environment**

**U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

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**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**

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**U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities**

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**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs**

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### U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

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### U.S. - CERCLA/SARA - Section 313 - Emission Reporting

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### U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

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### U.S. - TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification

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### United States - California

#### Environment

##### U.S. - California - Proposition 65 - Carcinogens List

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##### U.S. - California - Proposition 65 - Developmental Toxicity

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##### U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

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</table>
15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

15.3 Other Information

**Section 16 - Other Information**

**Relevant Phrases (code & full text)**
- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H412 - Harmful to aquatic life with long lasting effects

**Revision Date**
- 17/July/2018

**Preparation Date**
- 13/October/2015

**Disclaimer/Statement of Liability**
- The technical data given herein is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a warranty or quality specification. No guarantee is being given as to the end use performance. The product is sold on the basis that buyers test the product for their specific purposes. This information related to the material designated and may not be valid for such material used in combination with any other materials or in any process.

**Key to abbreviations**
- NDA = No Data Available
<table>
<thead>
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<tr>
<td><strong>Item:</strong> Calcium Hypochlorite HTH Granular, 100 pound drum</td>
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**Attachments**

- SDS-Calcium Hypochlorite.pdf
Safety Data Sheet

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name
• Calcium Hypochlorite Granular

Synonyms
• All-Clear™ ChlorRight; All-Clear™ Shock Clear; AmeriChlor Calcium Hypochlorite Granules; Assault 73; BioGuard Burn Out 73; BioGuard CLC Classic; Ca(OCl)2; Cal Hypo Granules; Calcium Hypochlorite; Calcium Hypochlorite Granular; Ideal Pool Products Super Shock 73; Induclor™; Induclor™ 70; More Chlor 65; Nature's Way Super Pool Shock; Pittchlor 70; Pittclor®; Power Powder® Plus; Power Powder® Pro; Prestochlor™; Pro Team Power 73; ProGuard; Refresh Dry Chlorinating Granular; Re-Fresh®; Regal®; Repak™ + Granules; Repak™ Dry Chlorinating Granules; Super Pool Shock; Super Shock-It®; Super Shock-It® 73; Super Zappit™; Sustain® Shock Treatment; Tropiclear; Vanguard® Plus Calcium Hypochlorite Granules; Zappit™; Zappit™ 73

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s)
• Industrial Application, Chlorine Disinfectant, Pool Chemicals

1.3 Details of the supplier of the safety data sheet

Manufacturer
• Axiall, LLC
  2801 Post Oak Blvd., Suite 600
  Houston, TX 77056
  United States
  www.westlake.com
  SDSinfo@westlake.com

Telephone (General)
• +1 713-960-9111

1.4 Emergency telephone number

Manufacturer
• +1 304-455-6882

Section 2: Hazards Identification

EU/EEC

2.1 Classification of the substance or mixture

CLP
• Oxidizing Solids 2 - H272
  Acute Toxicity Oral 4 - H302
  Skin Corrosion 1B - H314
  Serious Eye Damage 1 - H318
  Hazardous to the aquatic environment Acute 1 - H400

2.2 Label Elements

CLP

DANGER
Hazard statements

- H272 - May intensify fire; oxidizer
- H302 - Harmful if swallowed
- H318 - Causes serious eye damage
- H314 - Causes severe skin burns and eye damage.
- H400 - Very toxic to aquatic life

Precautionary statements

Prevention
- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P220 - Keep/Store away from clothing and other combustible materials.
- P221 - Take any precaution to avoid mixing with combustibles
- P260 - Do not breathe dusts or mists.
- P264 - Wash thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response
- P370+P378 - In case of fire: Use appropriate media to extinguish.
- P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P321 - Specific treatment, see supplemental first aid information.
- P363 - Wash contaminated clothing before reuse.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P301+P312 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.
- P330 - Rinse mouth.
- P331 - Do NOT induce vomiting.
- P391 - Collect spillage.

Storage/Disposal
- P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
- P405 - Store locked up.
- P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Supplemental information
- 0 - 3 percent of this product consists of an ingredient of unknown toxicity.

2.3 Other Hazards

CLP
- According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

UN GHS Revision 3

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS): Third Revised Edition

2.1 Classification of the substance or mixture

UN GHS
- Oxidizing Solids 2
- Acute Toxicity Oral 4
- Skin Corrosion 1B
- Serious Eye Damage 1
- Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
- Hazardous to the aquatic environment Acute 1
- Hazardous to the aquatic environment Chronic 1

2.2 Label elements

UN GHS

DANGER
Hazard statements
• May intensify fire; oxidizer
• Harmful if swallowed
• Causes serious eye damage
• May cause respiratory irritation
• Very toxic to aquatic life
• Very toxic to aquatic life with long lasting effects
• Causes severe skin burns and eye damage.

Precautionary statements
Prevention
• Keep away from heat.
• Keep/Store away from clothing and other combustible materials.
• Take any precaution to avoid mixing with combustibles.
• Do not breathe dusts or mists.
• Avoid breathing dust, fume, gas, mist, vapours and/or spray.
• Wash thoroughly after handling.
• Use only outdoors or in a well-ventilated area.
• Avoid release to the environment.
• Wear protective gloves/protective clothing/eye protection/face protection.

Response
• In case of fire: Use appropriate media for extinction.
• IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
• Call a POISON CENTER or doctor/physician if you feel unwell.
• IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
• Wash contaminated clothing before reuse.
• Specific treatment, see supplemental first aid information.
• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
• Immediately call a POISON CENTER or doctor/physician.
• IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
• Collect spillage.

Storage/Disposal
• Store in a well-ventilated place. Keep container tightly closed.
• Store locked up.
• Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Supplemental information
• 0-3 percent of this product consists of an ingredient of unknown toxicity.

2.3 Other hazards
UN GHS
• According to the Globally Harmonized System for Classification and Labeling (GHS) this product is considered hazardous
Hazard statements • May intensify fire; oxidizer
Harmful if swallowed
Causes severe skin burns and eye damage.
Causes serious eye damage
May cause respiratory irritation

Precautionary statements

Prevention • Keep away from heat.
Keep/Store away from clothing and other combustible materials.
Take any precaution to avoid mixing with combustibles
Do not breathe dust.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

Response • In case of fire: Use appropriate media to extinguish.
If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER/doctor/physician if you feel unwell.
If ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Wash contaminated clothing before reuse.
Specific treatment, see supplemental first aid information.
If IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor/physician.
If SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Storage/Disposal • Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Supplemental information • 0 - 3 percent of this product consists of an ingredient of unknown toxicity.

2.3 Other hazards

Canada
According to: WHMIS 2015

2.1 Classification of the substance or mixture
WHMIS 2015 • Oxidizing Solids 2
Acute Toxicity Oral 4
Skin Corrosion 1B
Serious Eye Damage 1
Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation

2.2 Label elements
WHMIS 2015

DANGER

Hazard statements • May intensify fire; oxidizer
Harmful if swallowed  
Causes severe skin burns and eye damage. 
Causes serious eye damage 
May cause respiratory irritation

Precautionary statements

Prevention
- Keep away from heat
- Take any precaution to avoid mixing with combustibles
- Keep away from clothing and other combustible materials.
- Do not breathe dust.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Wear fire resistant or flame retardant clothing.

Response
- In case of fire: Use appropriate media to extinguish.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- Call a POISON CENTER/doctor if you feel unwell.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
- Wash contaminated clothing before reuse.
- Immediately call a POISON CENTER/doctor.
- Specific treatment, see supplemental first aid information.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Storage/Disposal
- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up.
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Supplemental information
- 0 - 3 percent of this product consists of an ingredient of unknown toxicity.

2.3 Other hazards

WHMIS 2015
- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

3.1 Substances

- Material does not meet the criteria of a substance.

3.2 Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>%</th>
<th>LD50/LC50</th>
<th>Classifications According to Regulation/Directive</th>
</tr>
</thead>
</table>
| Calcium hypochlorite   | CAS:7778-54-3 EC Number:231-908-7 EU Index:017-012-00-7 | 65% TO 76% | NDA | EU CLP: Annex VI, Table 3.1: Ox. Sol. 2, H272; Acute Tox. 4 *, H302; Skin Corr. 1B, H314; Aquatic Acute 1, H400  
UN GHS Revision 3:  Ox. Sol. 2; Skin Corr. 1B; Eye Dam. 1; Acute Tox. 4 (Orl); STOT SE 3: Resp. Irrit; Aquatic Acute 1; Aquatic Chronic 1  
OSHA HCS 2012: Ox. Sol. 2; Skin Corr. 1B; Eye Dam. 1; Acute Tox. 4 (Orl); STOT SE 3: Resp. Irrit.  
WHMIS 2015: Ox. Sol. 2; Skin Corr. 1B; Eye Dam. 1; Acute Tox. 4 (Orl); STOT SE 3: Resp. Irrit. |
### Section 4 - First Aid Measures

#### 4.1 Description of first aid measures

**Inhalation**
- Move victim to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration. Do not use mouth-to-mouth method if victim inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a poison control center or doctor for further treatment advice.

**Skin**
- For minor skin contact, avoid spreading material on unaffected skin. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. Call a poison center or doctor for treatment advice.

**Eye**
- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. Remove contact lenses, if present after the first 5 minutes. Continue rinsing. Call a poison control center or doctor for further treatment advice.

**Ingestion**
- If swallowed, seek medical attention immediately from poison control center or doctor. Have a person sip a glass of water, if able to swallow. Do not give anything by mouth to an unconscious person. Do not induce vomiting unless told to do so by the poison control center or doctor.

#### 4.2 Most important symptoms and effects, both acute and delayed

- If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during, or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person. Refer to Section 11 - Toxicological Information.

#### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to Physician**
- Probable mucosal damage may contraindicate the use of gastric lavage. All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

---

**See Section 16 for full text of H-statements.**

---

<table>
<thead>
<tr>
<th>Material</th>
<th>CAS/EC Number</th>
<th>Ingestion/Oral-Rat LD50</th>
<th>EU CLP:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium chloride</td>
<td>7647-14-5</td>
<td>10% TO 30%</td>
<td>Eye Irrit. 2, H319</td>
</tr>
<tr>
<td></td>
<td>EC Number:231</td>
<td></td>
<td>UN GHS Revision 3: Acute Tox. 5 (oral); Eye Irrit. 2; Skin Irrit. 3</td>
</tr>
<tr>
<td></td>
<td>-598-3</td>
<td></td>
<td>OSHA HCS 2012: Eye Irrit. 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>WHMIS 2015: Eye Irrit. 2</td>
</tr>
<tr>
<td>Calcium hydroxide</td>
<td>1305-62-0</td>
<td>1% TO 3%</td>
<td>Eye Dam. 1, H318; Skin Corr. 1, H314</td>
</tr>
<tr>
<td></td>
<td>EC Number:215</td>
<td></td>
<td>Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td></td>
<td>-137-3</td>
<td></td>
<td>UN GHS Revision 3: Eye Dam. 1; Skin Corr. 1;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OSHA HCS 2012: Skin Corr. 1; Eye Dam. 1</td>
</tr>
<tr>
<td>Calcium chlorate</td>
<td>10137-74-3</td>
<td>0% TO 3%</td>
<td>Skin Corr. 1; Eye Dam. 1</td>
</tr>
<tr>
<td></td>
<td>EINECS:233-378-2</td>
<td>NDA</td>
<td>EU CLP:</td>
</tr>
<tr>
<td>Calcium carbonate</td>
<td>471-34-1</td>
<td>1% TO 3%</td>
<td>Ox. Sol. 2, H272</td>
</tr>
<tr>
<td></td>
<td>EC Number:207</td>
<td></td>
<td>UN GHS Revision 3: Ox. Sol. 2;</td>
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<tr>
<td></td>
<td>-439-9</td>
<td></td>
<td>OSHA HCS 2012: Ox. Sol. 2</td>
</tr>
<tr>
<td>Calcium chloride</td>
<td>10043-52-4</td>
<td>0.1%</td>
<td>EU CLP: Annex VI, Table 3.1: Eye Irrit. 2, H319</td>
</tr>
<tr>
<td></td>
<td>EC Number:233</td>
<td></td>
<td>UN GHS Revision 3: Eye Irrit. 2; Acute Tox. 4 (Orl);</td>
</tr>
<tr>
<td></td>
<td>-140-8</td>
<td></td>
<td>OSHA HCS 2012: Eye Irrit. 2; Acute Tox. 4 (Orl)</td>
</tr>
<tr>
<td>EU Index:017-013-00-2</td>
<td></td>
<td></td>
<td>WHMIS 2015: Eye Irrit. 2; Acute Tox. 4 (Orl)</td>
</tr>
</tbody>
</table>
Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media
- Drench with large quantities of water only.

Unsuitable Extinguishing Media
- Do not use dry chemicals or foams. Product supplies own oxygen, therefore attempts to smother fire with a wet blanket, carbon dioxide, dry chemical extinguisher or other means are not effective. Product has the potential to cause a violent reaction if dry chemical fire extinguishers are used.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards
- Containers may explode when heated.
- May explode from heat or contamination.
- May ignite combustibles (wood, paper, oil, clothing, etc.)
- Runoff may create fire or explosion hazard.
- Some will react explosively with hydrocarbons (fuels)
- These substances will accelerate burning when involved in a fire.
- Emits toxic fumes under fire conditions.
- Chlorine gas may be generated.

Hazardous Combustion Products
- Depending on conditions, decomposition products may include the following materials: carbon oxides; halogenated compounds; metal oxide/oxides.

5.3 Advice for firefighters

- Structural firefighters’ protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.
- Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Wear positive pressure self-contained breathing apparatus (SCBA).
- SMALL FIRES: Move containers from fire area if you can do it without risk.
- Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.
- No action shall be taken involving any personal risk or without suitable training.
- This material is very toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions
- Use extreme caution in handling spilled material. Ventilate the area before entry. Use spark-proof tools and explosion-proof equipment. Do not walk through spilled material. Do not mix this product with any other chemicals, including any other pool chemicals of any kind, such as other disinfection or “shock” pool products. Contamination with moisture, acids, organic matter, other chemicals (including, but not limited to cleaning chemicals and other pool chemicals), petroleum or paint products or other easily combustible materials may start a chemical reaction with generation of heat, liberation of hazardous gases and possible violent reaction leading to fire or explosion. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Emergency Procedures
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Do not get water inside container.

6.2 Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up
- Avoid generating dust.
Measures

If fire or decomposition occurs in area of spill, immediately douse with plenty of water. Otherwise, sweep up all visible material using a clean (new, if possible), dry shovel and broom and immediately dissolve material in a water-filled container. Spilled material that has been swept up and dissolved in water should be used immediately in the normal application for which this product is being consumed.

6.4 Reference to other sections

- Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

- Use extreme caution in handling spilled material. Use only with adequate ventilation. Keep away from combustible material. Strong oxidizer. Contact with other material may cause fire. Use spark-proof tools and explosion-proof equipment. Do not mix this product with any other chemicals, including any other pool chemicals of any kind, such as other disinfection or "shock" pool products. Contamination with moisture, acids, organic matter, other chemicals (including, but not limited to cleaning chemicals and other pool chemicals), petroleum or paint products or other easily combustible materials may start a chemical reaction with generation of heat, liberation of hazardous gases and possible violent reaction leading to fire or explosion. Always add product to large quantities of water to fully dissolve product. Do not pour water into product, always add product to water. Use only a clean (new, if possible), dry scoop made of metal or plastic each time product is taken from the container. Do not use with stabilized chlorine or bromine tablet chemical feeders. Do not add this product to any dispensing device containing remnants of any other product or pool chemical. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not ingest. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Empty containers retain product residue and can be hazardous. Do not reuse container. Residual material remaining in empty container can react to cause fire. Thoroughly flush empty container with water then destroy by placing in trash collection.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Ventilate enclosed areas. Keep only in the original container. Keep container closed. Separate from acids, alkalis, reducing agents and combustibles. Product is an NFPA Class 3 oxidizer which can cause a severe increase in fire intensity. Store in a cool, dry, well-ventilated place. If product becomes contaminated or decomposes do not reseal container. If possible isolate container in open air or well-ventilated area.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

<table>
<thead>
<tr>
<th>Exposure Limits/Guidelines</th>
<th>Result</th>
<th>ACGIH</th>
<th>Canada British Columbia</th>
<th>Canada Ontario</th>
<th>Canada Quebec</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium chloride (10043-52-4)</td>
<td>TWAs</td>
<td>Not established</td>
<td>Not established</td>
<td>5 mg/m3 TWA</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Calcium hydroxide (1305-62-0)</td>
<td>TWAs</td>
<td>5 mg/m3 TWA</td>
<td>5 mg/m3 TWA</td>
<td>5 mg/m3 TWA</td>
<td>5 mg/m3 TWA</td>
<td>5 mg/m3 TWA</td>
</tr>
<tr>
<td>Calcium carbonate (471-34-1)</td>
<td>TWAs</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>10 mg/m3 TWA</td>
<td>10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)</td>
</tr>
</tbody>
</table>
8.2 Exposure controls

Engineering Measures/Controls
- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

Personal Protective Equipment
- Respiratory: If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Eye/Face: Wear chemical splash goggles and face shield.
- Skin/Body: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. HANDS: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. GLOVES: Nitrile, neoprene, and butyl rubber.

Environmental Exposure Controls
- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Key to abbreviations
- ACGIH = American Conference of Governmental Industrial Hygiene
- NIOSH = National Institute of Occupational Safety and Health
- OSHA = Occupational Safety and Health Administration
- STEL = Short Term Exposure Limits are based on 15-minute exposures
- TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures
- TWAEV = Time-Weighted Average Exposure Value

Section 9 - Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Solid</th>
<th>Appearance/Description</th>
<th>Various colored solid (granular solid) with a slight chlorine odor.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Form</td>
<td>Solid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Various colors.</td>
<td>Odor</td>
<td>Slight chlorine odor.</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General Properties</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>170 to 180 °C(338 to 356 °F) Decomposes</td>
<td>Melting Point/Freezing Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>170 to 180 °C(338 to 356 °F)</td>
<td>pH</td>
<td>Alkaline</td>
</tr>
<tr>
<td>Specific Gravity/Relative Density</td>
<td>No data available</td>
<td>Bulk Density</td>
<td>1 to 1.07 g/cm³</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Soluble 100 %</td>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Volatility</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Vapor Pressure | No data available | Vapor Density | No data available
Evaporation Rate | No data available | Volatiles (Wt.) | 0 %
Volatiles (Vol.) | 0 % |

**Flammability**

Flash Point | Not relevant | UEL | Not relevant
LEL | Not relevant | Autoignition | No data available
Self-Accelerating Decomposition Temperature (SADT) | 60 °C (140 °F) | Flammability (solid, gas) | No data available

**Environmental**

Octanol/Water Partition coefficient | No data available

### 9.2 Other Information

- No additional physical and chemical parameters noted.

### Section 10: Stability and Reactivity

#### 10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

#### 10.2 Chemical stability

- The product may not be stable under certain conditions of storage or use. Product decomposes at approximately 170-180°C (338-356°F) releasing oxygen gas and some chlorine gas.

#### 10.3 Possibility of hazardous reactions

- Hazardous reactions or instability may occur under certain conditions of storage or use. Conditions may include the following: contact with combustible materials, contact with acids/ammonia. Reactions may include the following: risk of causing or intensifying fire, liberation of toxic gas.

#### 10.4 Conditions to avoid

- Heating may cause a fire or explosion. Excessive heat will cause decomposition resulting in the release of oxygen and chlorine gas.

#### 10.5 Incompatible materials

- Highly reactive or incompatible with the following materials: moisture, combustible materials, organic materials, metals, acids, alkalis, oxidizing materials, reducing materials, ammonia, petroleum products, paint products, wood and paper, and pool chemicals. Acid or ammonia contamination will release toxic gases.

#### 10.6 Hazardous decomposition products

- Depending on conditions, product slowly releases chlorine gas.

### Section 11 - Toxicological Information

#### 11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Components</th>
<th>Acute Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium chloride (0.1%)</td>
<td>Ingestion/Oral-Rat LD50 • 1 g/kg</td>
</tr>
<tr>
<td>Calcium hydroxide (1% TO 3%)</td>
<td>Ingestion/Oral-Rat LD50 • 7340 mg/kg; Irritation: Eye-Rabbit • 10 mg • Severe irritation</td>
</tr>
<tr>
<td>Calcium carbonate (1% TO 3%)</td>
<td>Irritation: Eye-Rabbit • 750 µg 24 Hour(s) • Severe irritation</td>
</tr>
</tbody>
</table>

**Calcium Hypochlorite Granular**

Preparation Date: 13/October/2015
Revision Date: 17/July/2018

Format: EU CLP/REACH Language: English (US)
EU CLP, UN GHS Revision 3, OSHA HCS 2012, WHMIS 2015

Page 10 of 17
| Sodium chloride (10% TO 30%) | 7647-14-5 | Irritation: Eye-Rabbit • 100 mg 24 Hour(s) • Moderate irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Mild irritation; Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 201.6 g/kg 6 Week(s)-Intermittent; Vascular: BP elevation not characterized in autonomic section; Mutagen: Unscheduled DNA synthesis • Ingestion/Oral-Rat • 16800 mg/kg 4 Week(s)-Continuous; Reproductive: Ingestion/Oral-Rat TDLo • 56400 mg/kg (5D pre-21D post); Reproductive Effects: Maternal Effects: Postpartum; Reproductive Effects: Effects on Newborn: Biochemical and metabolic |
| Calcium hypochlorite (65% TO 76%) | 7778-54-3 | Acute Toxicity: Ingestion/Oral-Rat LD50 • 850 mg/kg |

<table>
<thead>
<tr>
<th>GHS Properties</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>EU/CLP • Acute Toxicity - Oral 4 - ATEmix (Orl) = 1118 mg/kg UN GHS 3 • Acute Toxicity - Oral 4 - ATEmix (Orl) = 1054 mg/kg OSHA HCS 2012 • Acute Toxicity - Oral 4 - ATEmix (Orl) = 1054 mg/kg WHMIS 2015 • Acute Toxicity - Oral 4 - ATEmix (Orl) = 1054 mg/kg</td>
</tr>
<tr>
<td>Skin corrosion/Irritation</td>
<td>EU/CLP • Skin Corrosion 1B UN GHS 3 • Skin Corrosion 1B OSHA HCS 2012 • Skin Corrosion 1B WHMIS 2015 • Skin Corrosion 1B</td>
</tr>
<tr>
<td>Serious eye damage/Irritation</td>
<td>EU/CLP • Serious Eye Damage 1 UN GHS 3 • Serious Eye Damage 1 OSHA HCS 2012 • Serious Eye Damage 1 WHMIS 2015 • Serious Eye Damage 1</td>
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<tr>
<td>Skin sensitization</td>
<td>EU/CLP • No data available UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>EU/CLP • No data available UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>EU/CLP • No data available UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>EU/CLP • No data available UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>EU/CLP • No data available UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available</td>
</tr>
<tr>
<td>Toxicity for Reproduction</td>
<td>EU/CLP • No data available UN GHS 3 • Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract</td>
</tr>
</tbody>
</table>
Potential Health Effects

**Inhalation**

*Acute (Immediate)*
- May cause corrosive burns - irreversible damage. May cause respiratory irritation.

*Chronic (Delayed)*
- Repeated or prolonged exposure to corrosive fumes may cause bronchial irritation with chronic cough.

**Skin**

*Acute (Immediate)*
- Causes severe skin burns.

*Chronic (Delayed)*
- Repeated or prolonged exposure to corrosive materials will cause dermatitis.

**Eye**

*Acute (Immediate)*
- Causes serious eye damage. Direct contact with the eyes can cause irreversible damage, including blindness.

*Chronic (Delayed)*
- Repeated or prolonged exposure to corrosive materials or fumes may cause conjunctivitis.

**Ingestion**

*Acute (Immediate)*
- Harmful or fatal if swallowed. May cause irreversible damage to mucous membranes.

*Chronic (Delayed)*
- Repeated or prolonged exposure to corrosive materials or fumes may cause gastrointestinal disturbances.

**Carcinogenic Effects**
- This material contains components that may cause cancer, however, based on regulatory criteria this material is not classified as a carcinogen.

---

Section 12 - Ecological Information

### 12.1 Toxicity

| CAS | Aquatic Toxicity-Fish: 96 Hour(s) LC50 Bluegill - *Lepomis macrochirus* 57-60 µg/L [Fresh water] Comments: Calcium hypochlorite 96 Hour(s) LC50 Atlantic silverside - *Menidia menidia* 37 µg/L [Marine water] Comments: Calcium hypochlorite 96 Hour(s) LC50 Bluegill - *Lepomis macrochirus* 1294600 µg/L [Fresh water] Comments: Sodium chloride 96 Hour(s) LC50 Guppy - *Poecilia reticulata* 356 mg/L [Marine water] Comments: Calcium hydroxide 96 Hour(s) NOEC Guppy - *Poecilia reticulata* 56 mg/L [Marine water] Comments: Calcium hydroxide Aquatic Toxicity-Crustacea: 48 Hour(s) EC50 Water flea - *Daphnia magna* 402600-469200 µg/L [Fresh water] Comments: Sodium chloride 48 Hour(s) EC50 Water flea - *Daphnia magna* 0.073-0.079 µg/L [Marine water] Comments: Calcium hydroxide | Calcium Hypochlorite Granular NDA |

- LC50: 0.088 mg/L (96 hr, Bluegill Sunfish) Very toxic to aquatic life. Do not allow to enter groundwater, surface water or drains.

### 12.2 Persistence and degradability
• Material data lacking.

12.3 Bioaccumulative potential
• Material data lacking.

12.4 Mobility in Soil
• Material data lacking.

12.5 Results of PBT and vPvB assessment
• No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects
• No studies have been found.

### Section 13 - Disposal Considerations

#### 13.1 Waste treatment methods

**Product waste**
- The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Spilled material that has been swept up and dissolved in water should be used immediately in the normal application for which this product is being consumed. If this is not possible, material may be neutralized. Please contact Axiall Corporation Emergency Response team for guidance at 304-455-6882. Note: Only properly neutralized material should be flushed to sewer. Unneutralized material can cause environmental damage to receiving water or can interfere with treatment plant operation. Care must be taken when using or disposing of chemical materials and/or their containers to prevent environmental contamination. Empty containers retain product residue and can be hazardous. Residual material remaining in empty container can react to cause fire. Thoroughly flush empty container with water then destroy by placing in trash collection. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Packaging waste**
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

### Section 14 - Transport Information

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>14.2 UN proper shipping name</th>
<th>14.3 Transport hazard class(es)</th>
<th>14.4 Packing group</th>
<th>14.5 Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT UN2880</td>
<td>Calcium hypochlorite, hydrated</td>
<td>5.1</td>
<td>II</td>
<td>Marine Pollutant</td>
</tr>
<tr>
<td>TDG UN2880</td>
<td>CALCIUM HYPOCHLORITE, HYDRATED</td>
<td>5.1</td>
<td>II</td>
<td>Marine Pollutant</td>
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<tr>
<td>IMO/IMDG UN2880</td>
<td>CALCIUM HYPOCHLORITE, HYDRATED</td>
<td>5.1</td>
<td>II</td>
<td>Marine Pollutant</td>
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<tr>
<td>IATA/ICAO UN2880</td>
<td>Calcium hypochlorite, hydrated</td>
<td>5.1</td>
<td>II</td>
<td>Chronic Aquatic Toxicity</td>
</tr>
</tbody>
</table>

**14.6 Special precautions for user**
- Under 49 CFR (DOT), non-bulk U.S. domestic shipments by ground do not require Marine Pollutant markings or labels, nor does Marine Pollutant need to be mentioned on shipping papers.
- Data lacking.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**
Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications

- Acute, Fire

FIFRA – Pesticide Labeling

This chemical is a pesticide product registered by the Environmental Protection Agency and is regulated under FIFRA. Pesticide products are exempt from TSCA and not subject to inventory requirements.

- This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>Canada DSL</th>
<th>Canada NDSL</th>
<th>EU EINECS</th>
<th>EU ELNICS</th>
<th>TSCA</th>
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<tbody>
<tr>
<td>Calcium chloride</td>
<td>10043-52-4</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Calcium hydroxide</td>
<td>1305-62-0</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Calcium carbonate</td>
<td>471-34-1</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Calcium chloride</td>
<td>10137-74-3</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Calcium hypochlorite</td>
<td>7778-54-3</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>7647-14-5</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Canada

Labor

Canada - WHMIS - Classifications of Substances

- Calcium chloride
- Calcium hypochlorite
- Calcium chlorate
- Calcium hydroxide
- Sodium chloride
- Calcium carbonate

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium chloride</td>
<td>10043-52-4</td>
<td>D2B</td>
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<tr>
<td>Calcium hypochlorite</td>
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<td>C, E</td>
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<tr>
<td>Calcium chlorate</td>
<td>10137-74-3</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Calcium hydroxide</td>
<td>1305-62-0</td>
<td>E</td>
</tr>
</tbody>
</table>

Uncontrolled product according to WHMIS classification criteria

- Sodium chloride
- Calcium carbonate

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>Classification</th>
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</thead>
<tbody>
<tr>
<td>Sodium chloride</td>
<td>7647-14-5</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Calcium carbonate</td>
<td>471-34-1</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

Canada - WHMIS - Ingredient Disclosure List

- Calcium chloride
- Calcium hypochlorite
- Calcium chlorate
- Calcium hydroxide
- Sodium chloride
- Calcium carbonate

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium chloride</td>
<td>10043-52-4</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Calcium hypochlorite</td>
<td>7778-54-3</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Calcium chlorate</td>
<td>10137-74-3</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Calcium hydroxide</td>
<td>1305-62-0</td>
<td>1 %</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>7647-14-5</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Calcium carbonate</td>
<td>471-34-1</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

Environment

Canada - CEPA - Priority Substances List

- Calcium chloride
- Calcium hypochlorite
- Calcium chlorate
- Calcium hydroxide

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium chloride</td>
<td>10043-52-4</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Calcium hypochlorite</td>
<td>7778-54-3</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Calcium chlorate</td>
<td>10137-74-3</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Calcium hydroxide</td>
<td>1305-62-0</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>
### United States

#### Labor

**U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**
- Calcium chloride 7647-14-5 Not Listed
- Calcium hypochlorite 7778-54-3 Not Listed
- Calcium chlorate 10137-74-3 Not Listed
- Calcium hydroxide 1305-62-0 Not Listed
- Sodium chloride 7647-14-5 Not Listed
- Calcium carbonate 471-34-1 Not Listed

**U.S. - OSHA - Specifically Regulated Chemicals**
- Calcium chloride 10043-52-4 Not Listed
- Calcium hypochlorite 7778-54-3 Not Listed
- Calcium chlorate 10137-74-3 Not Listed
- Calcium hydroxide 1305-62-0 Not Listed
- Sodium chloride 7647-14-5 Not Listed
- Calcium carbonate 471-34-1 Not Listed

#### Environment

**U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**
- Calcium chloride 10043-52-4 Not Listed
- Calcium hypochlorite 7778-54-3 Not Listed
- Calcium chlorate 10137-74-3 Not Listed
- Calcium hydroxide 1305-62-0 Not Listed
- Sodium chloride 7647-14-5 Not Listed
- Calcium carbonate 471-34-1 Not Listed

**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**
- Calcium chloride 10043-52-4 Not Listed
- Calcium hypochlorite 7778-54-3 10 lb final RQ; 4.54 kg final RQ
- Calcium chlorate 10137-74-3 Not Listed
- Calcium hydroxide 1305-62-0 Not Listed
- Sodium chloride 7647-14-5 Not Listed
- Calcium carbonate 471-34-1 Not Listed

**U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities**
- Calcium chloride 10043-52-4 Not Listed
- Calcium hypochlorite 7778-54-3 Not Listed
- Calcium chlorate 10137-74-3 Not Listed
- Calcium hydroxide 1305-62-0 Not Listed
- Sodium chloride 7647-14-5 Not Listed
- Calcium carbonate 471-34-1 Not Listed

**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs**
- Calcium chloride 10043-52-4 Not Listed
- Calcium hypochlorite 7778-54-3 Not Listed
- Calcium chlorate 10137-74-3 Not Listed
- Calcium hydroxide 1305-62-0 Not Listed
- Sodium chloride 7647-14-5 Not Listed
- Calcium carbonate 471-34-1 Not Listed
### U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

- Calcium chloride 10043-52-4 Not Listed
- Calcium hypochlorite 7778-54-3 Not Listed
- Calcium chlorate 10137-74-3 Not Listed
- Calcium hydroxide 1305-62-0 Not Listed
- Sodium chloride 7647-14-5 Not Listed
- Calcium carbonate 471-34-1 Not Listed

### U.S. - CERCLA/SARA - Section 313 - Emission Reporting

- Calcium chloride 10043-52-4 Not Listed
- Calcium hypochlorite 7778-54-3 Not Listed
- Calcium chlorate 10137-74-3 Not Listed
- Calcium hydroxide 1305-62-0 Not Listed
- Sodium chloride 7647-14-5 Not Listed
- Calcium carbonate 471-34-1 Not Listed

### U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

- Calcium chloride 10043-52-4 Not Listed
- Calcium hypochlorite 7778-54-3 Not Listed
- Calcium chlorate 10137-74-3 Not Listed
- Calcium hydroxide 1305-62-0 Not Listed
- Sodium chloride 7647-14-5 Not Listed
- Calcium carbonate 471-34-1 Not Listed

### U.S. - TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification

- Calcium chloride 10043-52-4 Not Listed
- Calcium hypochlorite 7778-54-3 Not Listed
- Calcium chlorate 10137-74-3 Not Listed
- Calcium hydroxide 1305-62-0 Not Listed
- Sodium chloride 7647-14-5 Not Listed
- Calcium carbonate 471-34-1 Not Listed

### United States - California

#### Environment

- **U.S. - California - Proposition 65 - Carcinogens List**
  - Calcium chloride 10043-52-4 Not Listed
  - Calcium hypochlorite 7778-54-3 Not Listed
  - Calcium chlorate 10137-74-3 Not Listed
  - Calcium hydroxide 1305-62-0 Not Listed
  - Sodium chloride 7647-14-5 Not Listed
  - Calcium carbonate 471-34-1 Not Listed

- **U.S. - California - Proposition 65 - Developmental Toxicity**
  - Calcium chloride 10043-52-4 Not Listed
  - Calcium hypochlorite 7778-54-3 Not Listed
  - Calcium chlorate 10137-74-3 Not Listed
  - Calcium hydroxide 1305-62-0 Not Listed
  - Sodium chloride 7647-14-5 Not Listed
  - Calcium carbonate 471-34-1 Not Listed

- **U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)**
  - Calcium chloride 10043-52-4 Not Listed
  - Calcium hypochlorite 7778-54-3 Not Listed
  - Calcium chlorate 10137-74-3 Not Listed
15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

15.3 Other Information

Section 16 - Other Information

Relevant Phrases (code & full text)

- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H412 - Harmful to aquatic life with long lasting effects

Revision Date

- 17/July/2018

Preparation Date

- 13/October/2015

Disclaimer/Statement of Liability

- The technical data given herein is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a warranty or quality specification. No guarantee is being given as to the end use performance. The product is sold on the basis that buyers test the product for their specific purposes. This information related to the material designated and may not be valid for such material used in combination with any other materials or in any process.

Key to abbreviations

NDA = No Data Available
<table>
<thead>
<tr>
<th>George S. Coyne Chemical Co., Inc</th>
<th>Item: Sodium Permanganate</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Attachments</strong></td>
<td></td>
</tr>
<tr>
<td>SDS·Sodium Permanganate.pdf</td>
<td></td>
</tr>
</tbody>
</table>
1. PRODUCT AND COMPANY IDENTIFICATION

Product Identity: Sodium Permanganate 10-20%

Recommended use of the chemical and restrictions on use:

Supplier: Coyne Chemical
3015 State Road
Croydon, PA 19021
Telephone: +1 (215) 785-3000

Emergency Phone: For Chemical Emergency
Spill, Leak, Fire, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

SDS Date of Preparation: 5/3/17

2. HAZARDS IDENTIFICATION

GHS Classification:

<table>
<thead>
<tr>
<th>Physical:</th>
<th>Health:</th>
<th>Environmental</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxidizing Liquid Category 2</td>
<td>Eye Corrosion Category 1</td>
<td>Aquatic Acute Toxicity</td>
</tr>
<tr>
<td></td>
<td>Skin Corrosion Category 1B</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

GHS Label Elements:
Danger!

Statements of Hazard
H272 May intensify fire; oxidizer.
H314 Causes severe skin burns and eye damage.
H401 Toxic to aquatic life.

Precautionary Phrases
P210 Keep away from heat.
P220 Store away from clothing and combustible materials.
P221 Take any precaution to avoid mixing with combustibles materials.
P260 Do not breathe mist, vapors, or spray.
P264 Wash thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves, protective clothing, eye protections and face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and
easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P310 Immediately call a POISON CENTER or doctor.
P363 Wash contaminated clothing before reuse.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310 Immediately call a POISON CENTER or doctor.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310 Immediately call a POISON CENTER or doctor.
P370+P378 In case of fire: Use large quantities of water to extinguish.
P391 Collect spillage.
P405 Store locked up.
P501 Dispose of contents and container in accordance with local and national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>80-90%</td>
</tr>
<tr>
<td>Sodium Permanganate</td>
<td>10101-50-5</td>
<td>10-20%</td>
</tr>
</tbody>
</table>

The exact concentration is being withheld as a trade secret.

4. FIRST AID MEASURES

**Eye:** Immediately flush eyes with plenty of water for at least 20 mintues while holding the eyelids apart. Get immediate medical attention.

**Skin:** Immediately flush skin with plenty of water for 30 minutes while removing contaminated clothing and shoes. Get immediate medical attention. Launder clothing before re-use. (Discard contaminated shoes). Do not allow product to dry on clothing. Evaporation of water concentrates the oxidizer and increases the risk of fire.

**Ingestion:** Do NOT induce vomiting. If conscious, give one 8 ounce glass of water to dilute. Never give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.

**Inhalation:** Immediately remove victim to fresh air. If breathing is difficult, oxygen should be administered by qualified personnel. If breathing has stopped, administer artificial respiration. Get immediate medical attention.

**Most important Symptoms:** May cause skin burns and severe eye damage. Inhalation of vapors or mists may cause mucous membrane and respiratory irritation and burns with possible pulmonary edema. May be harmful if swallowed. Prolonged overexposure may cause kidney, liver and nervous system damage.

**Indication of immediate medical attention/special treatment:** Immediate medical attention is required for all routes of exposures.

Decomposition products are alkaline. Brown stain formed around eyes is insoluble manganese dioxide.
5. FIRE FIGHTING MEASURES

Suitable (and Unsuitable) Extinguishing Media: Use large quantities of water. Do not use dry chemical, carbon dioxide, halon or foams. Cool fire exposed container with water.

Specific hazards arising from the chemical: Oxidizer- increases the flammability of combustible or flammable materials or powdered metals. Drying of sodium permanganate solution on clothing or other combustible material may result in fire. DO NOT allow material to come into contact with incompatible materials. Decomposition will produce oxides of sodium and manganese.

Special Protective Equipment and Precautions for Fire-Fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water spray. Avoid releases to the environment.

Explosion Data (sensitivity to mechanical impact or static discharge): None known.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Evacuate spill area and keep unprotected personnel away. Prevent contact with the eyes, skin and clothing. Do not breathe vapors or mists. Ventilate area. Wear appropriate protective clothing. Keep away from heat, flames and high temperatures. Prevent contact of product with flammable or combustible material. Avoid releases to the environment.

Methods and Materials for Containment and Cleaning Up: Contain and recover liquid if possible or absorb with an inert, non-combustible material such as earth, dry sand or vermiculite. Do not use combustible absorbent such as sawdust. Wash spill site with water. Report releases as required by local, state and federal authorities.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Prevent contact with the eyes, skin and clothing. Do not breathe vapors or mists. Wear protective clothing and equipment. Use only with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Wash clothing before re-use.

Do not reuse containers. Empty containers retain product residues which can be hazardous. Follow all SDS precautions when handling empty containers.

Conditions for Safe Storage, Including Any Incompatibilities: Store in a cool, well-ventilated area away from incompatible materials (combustibles, reducing agents, strong bases, and organics). Do not store on wooden shelves or floors. Keep away from heat and sunlight. Storage temperature range: 0-135°C (32-275°F).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

| Sodium Permanganate (As Manganese and inorganic compounds, as Mn) | 0.02 mg/m3 (Respirable), 0.1 mg/m3 (Inhalable) TWA ACGIH TLV 5 mg/m3 Ceiling OSHA PEL |

Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposures below the occupational exposure limits.

Respiratory Protection: In operations where exposure levels are excessive, an approved respirator with dust/mist cartridges or supplied air respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.
**Sodium Permanganate 10-20%**

5/3/17

Skin Protection: Wear impervious gloves such as rubber or nitrile to avoid skin contact. If needed suitable protective clothing such as aprons or coveralls should be worn. If protective clothing is not fire resistant, it must be washed thoroughly with water after it contacts sodium permanganate solution. If allowed to dry in the fabric, the chemical may cause fire, particularly if the clothing is soiled.

Eye Protection: Chemical safety goggles and faceshield should be worn.

Other: Impervious coveralls, apron and boots is required to prevent skin contact and contamination of personal clothing. A safety shower and eye wash should be available in the immediate work area.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance and Odor:** Dark purple liquid with no odor.

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Odor Threshold:</th>
<th>Not available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor Density:</td>
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<tr>
<td>Solubility In Water:</td>
<td>Vapor Pressure:</td>
<td>760 mmHg @ 221°F (105°C)</td>
</tr>
<tr>
<td>Relative Density:</td>
<td>Evaporation Rate:</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting/Freezing Point:</td>
<td>pH:</td>
<td>6-9</td>
</tr>
<tr>
<td>VOC Content:</td>
<td>Octanol/Water Coefficient:</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility:</td>
<td>Decomposition Temperature:</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity:</td>
<td>Flammability (solid, gas):</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flashpoint:</td>
<td>Autoignition Temperature:</td>
<td>None</td>
</tr>
<tr>
<td>Flammable Limits:</td>
<td>LEL:</td>
<td>Not applicable</td>
</tr>
<tr>
<td></td>
<td>UEL:</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

**Reactivity:** Strong oxidizer.

**Chemical Stability:** Stable under normal conditions.

**Possibility of Hazardous Reactions:** Oxidizers may react with many other materials, particularly flammable and combustible organic materials. Contact with hydrochloric acid may cause toxic chlorine gas to evolve.

**Conditions to Avoid:** Keep away from heat, flames and high temperatures.

**Incompatible Materials:** Avoid contact with acids, peroxides, combustible materials, and metal powders.

**Hazardous Decomposition Products:** When heated to decomposition emits toxic oxides of oxides of sodium and manganese.

### 11. TOXICOLOGICAL INFORMATION

**HEALTH HAZARDS:**

**Eye:** May cause severe irritation or burns with pain, tearing and swelling. Permanent damage may occur.

**Skin:** May cause irritation or burns with redness and pain. Staining of the skin may occur.

**Ingestion:** Ingestion may cause gastrointestinal irritation or burns, nausea, vomiting and sore throat. May cause perforation of the stomach or intestine. Liver and kidney damage may occur.

**Inhalation:** Inhalation of mists may cause irritation of the nose, throat and respiratory tract.

**Sensitization:** This material is not known to cause sensitization.

**Chronic:** Prolonged or repeated overexposure may cause anemia, pancreatitis, liver and kidney damage, adverse reproductive effects and neurologic effects such as tremor and parkinsonism.

**Carcinogenicity:** None of the components present are listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, or OSHA.
Germ Cell Mutagenicity: No information available.
Reproductive Toxicity: No information available.
Numerical Measures of Toxicity: No toxicity data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity:
Sodium Permanganate: 96 hr LC50 Guppy – 0.47 mg/L, NOEC -0.35 mg/L; 48 hr EC50 Daphnia magna – 0.06 mg/L, NOEC – 0.01 mg/L

This product is classified as toxic to aquatic life. Releases to the environment should be avoided.

Persistence and Degradability: Biodegradability is not applicable to inorganic substances.

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects: No data available

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local and national environmental regulations.

14. TRANSPORT INFORMATION

DOT Hazardous Materials Description:
Proper Shipping Name: Permanganates, inorganic, aqueous solutions n.o.s. (Sodium Permanganate)
UN Number: UN3214
Hazard Class/Packing Group: 5.1, PG II
Labels Required: Oxidizer

IMDG Shipping Name: Permanganates, inorganic, aqueous solutions n.o.s. (Sodium Permanganate)
UN Number: UN3214
IMDG Hazard Class/Packing Group: 5.1, PG II
IMDG Hazard Labels Required: Oxidizer

IATA Shipping Name: Permanganates, inorganic, aqueous solutions n.o.s. (Sodium Permanganate)
UN Number: UN3214
IATA Hazard Class/Packing Group: 5.1, PG II
IATA Hazard Labels Required: Oxidizer

15. REGULATORY INFORMATION

CERCLA 103 Reportable Quantity: This product is not subject to CERCLA reporting requirements. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

Hazard Category for Section 311/312: See Section 2 for OSHA Hazard Classification.
Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Reporting requirements:

- Sodium Permanganate (Manganese Compounds) 10101-50-5 10-20%

Section 302 Extremely Hazardous Substances (TPQ): None

INTERNATIONAL CHEMICAL INVENTORY STATUS:

- Australia AICS: All the components are listed.
- Canada DSL: All the components are listed.
- China IECSC: All the components are listed.
- European Union EINECS: All the components are listed.
- Japan ENCS: All the components are listed.
- Korea KECL: All the components are listed.
- New Zealand: All the components are listed.
- Philippines PICCS: All the components are listed.
- United States TSCA: All the components are listed.

16. OTHER INFORMATION

- NFPA Rating: Health = 3 Flammability = 0 Instability = 0 Special Hazards = OX
- HMIS Rating: Health = 3 Flammability = 0 Physical Hazard = 2

Revision Summary:
7/2/13: New SDS
5/3/17: Updated SDS

NOTICE

This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. Coyne Chemical shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.
### George S. Coyne Chemical Co., Inc

<table>
<thead>
<tr>
<th>Item:</th>
<th>Sodium Permanganate</th>
</tr>
</thead>
</table>

### Attachments

- SDS-Sodium Permanganate.pdf
1. PRODUCT AND COMPANY IDENTIFICATION

Product Identity: Sodium Permanganate 10-20%

Recommended use of the chemical and restrictions on use:

Supplier: Coyne Chemical
3015 State Road
Croydon, PA 19021
Telephone: +1 (215) 785-3000

Emergency Phone: For Chemical Emergency Spill, Leak, Fire, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

SDS Date of Preparation: 5/3/17

2. HAZARDS IDENTIFICATION

GHS Classification:

<table>
<thead>
<tr>
<th>Physical:</th>
<th>Health:</th>
<th>Environmental:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxidizing Liquid Category 2</td>
<td>Eye Corrosion Category 1</td>
<td>Aquatic Acute Toxicity</td>
</tr>
<tr>
<td></td>
<td>Skin Corrosion Category 1B</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

GHS Label Elements:
Danger!

Statements of Hazard
H272 May intensify fire; oxidizer.
H314 Causes severe skin burns and eye damage.
H401 Toxic to aquatic life.

Precautionary Phrases
P210 Keep away from heat.
P220 Store away from clothing and combustible materials.
P221 Take any precaution to avoid mixing with combustibles materials.
P260 Do not breathe mist, vapors, or spray.
P264 Wash thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves, protective clothing, eye protections and face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and
easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P310 Immediately call a POISON CENTER or doctor.
P363 Wash contaminated clothing before reuse.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310 Immediately call a POISON CENTER or doctor.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310 Immediately call a POISON CENTER or doctor.
P370+P378 In case of fire: Use large quantities of water to extinguish.
P391 Collect spillage.
P405 Store locked up.
P501 Dispose of contents and container in accordance with local and national regulations.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>80-90%</td>
</tr>
<tr>
<td>Sodium Permanganate</td>
<td>10101-50-5</td>
<td>10-20%</td>
</tr>
</tbody>
</table>

*The exact concentration is being withheld as a trade secret.*

### 4. FIRST AID MEASURES

**Eye:** Immediately flush eyes with plenty of water for at least 20 minutes while holding the eyelids apart. Get immediate medical attention.

**Skin:** Immediately flush skin with plenty of water for 30 minutes while removing contaminated clothing and shoes. Get immediate medical attention. Launder clothing before re-use. (Discard contaminated shoes). Do not allow product to dry on clothing. Evaporation of water concentrates the oxidizer and increases the risk of fire.

**Ingestion:** Do NOT induce vomiting. If conscious, give one 8 ounce glass of water to dilute. Never give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.

**Inhalation:** Immediately remove victim to fresh air. If breathing is difficult, oxygen should be administered by qualified personnel. If breathing has stopped, administer artificial respiration. Get immediate medical attention.

**Most important Symptoms:** May cause skin burns and severe eye damage. Inhalation of vapors or mists may cause mucous membrane and respiratory irritation and burns with possible pulmonary edema. May be harmful if swallowed. Prolonged overexposure may cause kidney, liver and nervous system damage.

**Indication of immediate medical attention/special treatment:** Immediate medical attention is required for all routes of exposures.

Decomposition products are alkaline. Brown stain formed around eyes is insoluble manganese dioxide.
5. FIRE FIGHTING MEASURES

**Suitable (and Unsuitable) Extinguishing Media:** Use large quantities of water. Do not use dry chemical, carbon dioxide, halon or foams. Cool fire exposed container with water.

**Specific hazards arising from the chemical:** Oxidizer- increases the flammability of combustible or flammable materials or powdered metals. Drying of sodium permanganate solution on clothing or other combustible material may result in fire. DO NOT allow material to come into contact with incompatible materials. Decomposition will produce oxides of sodium and manganese.

**Special Protective Equipment and Precautions for Fire-Fighters:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water spray. Avoid releases to the environment.

**Explosion Data (sensitivity to mechanical impact or static discharge):** None known.

6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment, and Emergency Procedures:** Evacuate spill area and keep unprotected personnel away. Prevent contact with the eyes, skin and clothing. Do not breathe vapors or mists. Ventilate area. Wear appropriate protective clothing. Keep away from heat, flames and high temperatures. Prevent contact of product with flammable or combustible material. Avoid releases to the environment.

**Methods and Materials for Containment and Cleaning Up:** Contain and recover liquid if possible or absorb with an inert, non-combustible material such as earth, dry sand or vermiculite. Do not use combustible absorbent such as sawdust. Wash spill site with water. Report releases as required by local, state and federal authorities.

7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Prevent contact with the eyes, skin and clothing. Do not breathe vapors or mists. Wear protective clothing and equipment. Use only with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Wash clothing before re-use.

Do not reuse containers. Empty containers retain product residues which can be hazardous. Follow all SDS precautions when handling empty containers.

**Conditions for Safe Storage, Including Any Incompatibilities:** Store in a cool, well-ventilated area away from incompatible materials (combustibles, reducing agents, strong bases, and organics). Do not store on wooden shelves or floors. Keep away from heat and sunlight. Storage temperature range: 0-135°C (32-275°F).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines:**

| Sodium Permanganate (As Manganese and inorganic compounds, as Mn) | 0.02 mg/m³ (Respirable), 0.1 mg/m³ (Inhalable) TWA ACGIH TLV 5 mg/m³ Ceiling OSHA PEL |

**Engineering Controls:** Use with adequate general or local exhaust ventilation to maintain exposures below the occupational exposure limits.

**Respiratory Protection:** In operations where exposure levels are excessive, an approved respirator with dust/mist cartridges or supplied air respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.
Skin Protection: Wear impervious gloves such as rubber or nitrile to avoid skin contact. If needed suitable protective clothing such as aprons or coveralls should be worn. If protective clothing is not fire resistant, it must be washed thoroughly with water after it contacts sodium permanganate solution. If allowed to dry in the fabric, the chemical may cause fire, particularly if the clothing is soiled.

Eye Protection: Chemical safety goggles and faceshield should be worn.

Other: Impervious coveralls, apron and boots is required to prevent skin contact and contamination of personal clothing. A safety shower and eye wash should be available in the immediate work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
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<td>Physical State:</td>
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<td>Odor Threshold:</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>Not available</td>
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<tr>
<td>Initial Boiling Point/Range:</td>
<td>213.8°F (101°C)</td>
</tr>
<tr>
<td>Solubility In Water:</td>
<td>Soluble</td>
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<tr>
<td>Vapor Pressure:</td>
<td>760 mmHg @ 221°F (105°C)</td>
</tr>
<tr>
<td>Relative Density:</td>
<td>1.2-1.3</td>
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<tr>
<td>Evaporation Rate:</td>
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<td>Melting/Freezing Point:</td>
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<td>6-9</td>
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<td>VOC Content:</td>
<td>Not available</td>
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<td>Octanol/Water Coefficient:</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility: Soluble in water</td>
<td>Decomposition Temperature: Not available</td>
</tr>
<tr>
<td>Viscosity:</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas):</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flashpoint:</td>
<td>None</td>
</tr>
<tr>
<td>Autoignition Temperature:</td>
<td>None</td>
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<tr>
<td>Flammable Limits:</td>
<td>LEL: Not applicable</td>
</tr>
<tr>
<td>UEL: Not applicable</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity: Strong oxidizer.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Oxidizers may react with many other materials, particularly flammable and combustible organic materials. Contact with hydrochloric acid may cause toxic chlorine gas to evolve.

Conditions to Avoid: Keep away from heat, flames and high temperatures.

Incompatible Materials: Avoid contact with acids, peroxides, combustible materials, and metal powders.

Hazardous Decomposition Products: When heated to decomposition emits toxic oxides of oxides of sodium and manganese.

11. TOXICOLOGICAL INFORMATION

HEALTH HAZARDS:

Eye: May cause severe irritation or burns with pain, tearing and swelling. Permanent damage may occur.

Skin: May cause irritation or burns with redness and pain. Staining of the skin may occur.

Ingestion: Ingestion may cause gastrointestinal irritation or burns, nausea, vomiting and sore throat. May cause perforation of the stomach or intestine. Liver and kidney damage may occur.

Inhalation: Inhalation of mists may cause irritation of the nose, throat and respiratory tract.

Sensitization: This material is not known to cause sensitization.

Chronic: Prolonged or repeated overexposure may cause anemia, pancreatitis, liver and kidney damage, adverse reproductive effects and neurologic effects such as tremor and parkinsonism.

Carcinogenicity: None of the components present are listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, or OSHA.
Germ Cell Mutagenicity: No information available.
Reproductive Toxicity: No information available.
Numerical Measures of Toxicity: No toxicity data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity:
Sodium Permanganate: 96 hr LC50 Guppy – 0.47 mg/L, NOEC -0.35 mg/L; 48 hr EC50 Daphnia magna – 0.06 mg/L, NOEC – 0.01 mg/L

This product is classified as toxic to aquatic life. Releases to the environment should be avoided.

Persistence and Degradability: Biodegradability is not applicable to inorganic substances.

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects: No data available

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local and national environmental regulations.

14. TRANSPORT INFORMATION

DOT Hazardous Materials Description:
Proper Shipping Name: Permanganates, inorganic, aqueous solutions n.o.s. (Sodium Permanganate)
UN Number: UN3214
Hazard Class/Packing Group: 5.1, PG II
Labels Required: Oxidizer

IMDG Shipping Name: Permanganates, inorganic, aqueous solutions n.o.s. (Sodium Permanganate)
UN Number: UN3214
IMDG Hazard Class/Packing Group: 5.1, PG II
IMDG Hazard Labels Required: Oxidizer

IATA Shipping Name: Permanganates, inorganic, aqueous solutions n.o.s. (Sodium Permanganate)
UN Number: UN3214
IATA Hazard Class/Packing Group: 5.1, PG II
IATA Hazard Labels Required: Oxidizer

15. REGULATORY INFORMATION

CERCLA 103 Reportable Quantity: This product is not subject to CERCLA reporting requirements. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

Hazard Category for Section 311/312: See Section 2 for OSHA Hazard Classification.
Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements:

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<thead>
<tr>
<th>Chemical</th>
<th>CAS Number</th>
<th>Concentration</th>
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<tbody>
<tr>
<td>Sodium Permanganate</td>
<td>10101-50-5</td>
<td>10-20%</td>
</tr>
<tr>
<td>(Manganese Compounds)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section 302 Extremely Hazardous Substances (TPQ): None

INTERNATIONAL CHEMICAL INVENTORY STATUS:

- Australia AICS: All the components are listed.
- Canada DSL: All the components are listed.
- China IECSC: All the components are listed.
- European Union EINECS: All the components are listed.
- Japan ENCS: All the components are listed.
- Korea KECL: All the components are listed.
- New Zealand: All the components are listed.
- Philippines PICCS: All the components are listed.
- United States TSCA: All the components are listed.

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA Rating</th>
<th>Health</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
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<table>
<thead>
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<th>HMIS Rating</th>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
<td>0</td>
<td>2</td>
</tr>
</tbody>
</table>

Revision Summary:
7/2/13: New SDS
5/3/17: Updated SDS

NOTICE

This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. Coyne Chemical shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.
<table>
<thead>
<tr>
<th>George S. Coyne Chemical Co., Inc</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Item:</strong> Zetag 7587 Dry Polymer</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Attachments</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDS-Zetag 7587.pdf</td>
</tr>
</tbody>
</table>
1. Identification

Product identifier used on the label

Zetag® 7587

Recommended use of the chemical and restriction on use
Recommended use*: flocculation agent; Performance Chemicals for Oilfield Applications

* The “Recommended use” identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:
Solenis LLC
500 Hercules Road
Wilmington, DE 19808
United States of America (USA)

Telephone: Contact your local CSR contact

Emergency telephone number

Telephone: 1-844-SOLENIS (844-765-3647)

Other means of identification
Chemical family: polyacrylamide, cationic

2. Hazards Identification


Classification of the product

No need for classification according to GHS criteria for this product.

Label elements

The product does not require a hazard warning label in accordance with GHS criteria.

Hazards not otherwise classified
Very slippery when wet. This type of product has a tendency to create dust if roughly handled. The product does not burn readily but as with many organic powders, flammable dust clouds may be formed in air. The product is under certain conditions capable of dust explosion.

Labeling of special preparations (GHS): This product is not combustible in the form in which it is shipped by the manufacturer, but may form a combustible dust through downstream activities (e.g. grinding, pulverizing) that reduce its particle size.

3. Composition / Information on Ingredients


<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Weight %</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>124-04-9</td>
<td>1.0 - 5.0%</td>
<td>adipic acid</td>
</tr>
</tbody>
</table>

4. First-Aid Measures

Description of first aid measures

General advice:
Remove contaminated clothing.

If inhaled:
Keep patient calm, remove to fresh air, seek medical attention.

If on skin:
Wash thoroughly with soap and water.
If irritation develops, seek medical attention.

If in eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open.
Seek medical attention.

If swallowed:
Rinse mouth and then drink plenty of water. Do not induce vomiting. Immediate medical attention required.

Most important symptoms and effects, both acute and delayed

Symptoms: No significant symptoms are expected due to the non-classification of the product.
Hazards: No hazard is expected under intended use and appropriate handling.

Indication of any immediate medical attention and special treatment needed

Note to physician
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.
5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
- dry powder, foam

Unsuitable extinguishing media for safety reasons:
- water jet, carbon dioxide

Additional information:
If water is used, restrict pedestrian and vehicular traffic in areas where slip hazard may exist.

Special hazards arising from the substance or mixture

Hazards during fire-fighting:
- carbon oxides, nitrogen oxides

The substances/groups of substances mentioned can be released in case of fire. Very slippery when wet.

Advice for fire-fighters

Protective equipment for fire-fighting:
- Wear a self-contained breathing apparatus.

Further information:
The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

Dusty conditions may ignite explosively in the presence of an ignition source causing flash fire.

6. Accidental release measures

Further accidental release measures:
Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Avoid the formation and build-up of dust - danger of dust explosion. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition. Forms slippery surfaces with water.

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing.

Environmental precautions

Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For small amounts: Pick up with suitable appliance and dispose of.
For large amounts: Contain with dust binding material and dispose of.
Avoid raising dust.
Nonsparking tools should be used.

7. Handling and Storage

Precautions for safe handling
Breathing must be protected when large quantities are decanted without local exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice. Forms slippery surfaces with water.

Protection against fire and explosion:
Avoid dust formation. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids (2013 Edition) for safe handling.

Conditions for safe storage, including any incompatibilities
Segregate from foods and animal feeds.

Further information on storage conditions: Store in unopened original containers in a cool and dry place. Avoid wet, damp or humid conditions, temperature extremes and ignition sources.
Protect from temperatures below: 5 °C
Protect from temperatures above: 25 °C

8. Exposure Controls/Personal Protection

Components with occupational exposure limits
adipic acid

ACGIH TLV TWA value 5 mg/m3 ;

Advice on system design:
It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

Personal protective equipment

Respiratory protection:
Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Hand protection:
Chemical resistant protective gloves

Eye protection:
Safety glasses with side-shields.

Body protection:
No body protection required if used for intended purpose and satisfying generally accepted industrial hygiene rules.

General safety and hygiene measures:
Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice. No eating, drinking, smoking or tobacco use at the place of work.
9. Physical and Chemical Properties

Form: beads
Odour: odourless
Odour threshold: No data available.
Colour: off-white
pH value: 3.5 - 4.5
(10 g/l)
Melting point: The substance / product decomposes therefore not determined.
Boiling point: not applicable
Sublimation point: No data available.
Flash point: not applicable
Flammability: not flammable
Lower explosion limit: For solids not relevant for classification and labelling.
Upper explosion limit: For solids not relevant for classification and labelling.
Autoignition: No data available.
Vapour pressure: The product has not been tested.
Relative density: No data available.
Bulk density: approx. 800 kg/m3
Vapour density: No data available.
Partitioning coefficient n-octanol/water (log Pow): Study scientifically not justified.
Self-ignition temperature: not self-igniting
Thermal decomposition: 220 °C
No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic: not determined
Solubility in water: Forms a viscous solution.
Miscibility with water: miscible
Solubility (quantitative): No data available.
Solubility (qualitative): No data available.
Evaporation rate: The product is a non-volatile solid.
Other Information: If necessary, information on other physical and chemical parameters is indicated in this section.

10. Stability and Reactivity

Reactivity
No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:
No corrosive effect on metal.

Oxidizing properties:
not fire-propagating

Chemical stability
The product is stable if stored and handled as prescribed/indicated.

Peroxides: 0.000 %
The product does not contain peroxides.
Possibility of hazardous reactions
The product is not a dust explosion risk as supplied; however the build-up of fine dust can lead to a risk of dust explosions.

Conditions to avoid
Avoid extreme temperatures. Avoid humidity.

Incompatible materials
strong acids, strong bases, strong oxidizing agents

Hazardous decomposition products
Decomposition products:
Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:
220 °C
No decomposition if stored and handled as prescribed/indicated.

11. Toxicological information

Primary routes of exposure
Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity
Assessment of acute toxicity: Virtually nontoxic after a single ingestion.

Oral
Type of value: LD50
Species: rat
Value: > 5,000 mg/kg (OECD Guideline 401)

Irritation / corrosion
Assessment of irritating effects: Not irritating to eyes and skin.

Skin
Species: rabbit
Result: non-irritant
Method: OECD Guideline 404

Eye
Species: rabbit
Result: non-irritant

Sensitization
Assessment of sensitization: Based on the ingredients, there is no suspicion of a skin-sensitizing potential.

Aspiration Hazard
No aspiration hazard expected.
Chronic Toxicity/Effects

Repeated dose toxicity
Assessment of repeated dose toxicity: Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statement has been derived from the properties of the individual components.

Genetic toxicity
Assessment of mutagenicity: Based on the ingredients, there is no suspicion of a mutagenic effect.

Carcinogenicity
Assessment of carcinogenicity: None of the components in this product at concentrations greater than 0.1% are listed by IARC; NTP, OSHA or ACGIH as a carcinogen. The whole of the information assessable provides no indication of a carcinogenic effect.

Reproductive toxicity
Assessment of reproduction toxicity: Based on the ingredients, there is no suspicion of a toxic effect on reproduction.

Teratogenicity
Assessment of teratogenicity: Based on the ingredients, there is no suspicion of a teratogenic effect.

Other Information
The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition.

Symptoms of Exposure
No significant symptoms are expected due to the non-classification of the product.

12. Ecological Information

Toxicity

Aquatic toxicity
Assessment of aquatic toxicity: Acute effects on aquatic organisms are due to the cationic charge of the polymer, which is quickly neutralised in natural water courses by irreversible adsorption onto particles, hydrolysis and dissolved organic carbon. Fish toxicity and aquatic toxicity are drastically reduced by rapid irreversible adsorption onto suspended and/or dissolved organic matter. The hydrolysis products are not acutely harmful to aquatic organisms. Tested was a substance with a high cationic charge density. As the acute effects are associated with the charge density, substances with a lower charge density are expected to have a lower toxicity.

Toxicity to fish
LC50 (96 h) 1 - 10 mg/l, Fish (static)

Aquatic invertebrates
EC50 (48 h) 10 - 100 mg/l, daphnia

Persistence and degradability

Assessment biodegradation and elimination (H2O)
Not readily biodegradable (by OECD criteria).
Information on Stability in Water (Hydrolysis)
> 70 % (28 d) (pH value > 6)
In contact with water the substance will hydrolyse rapidly.

Bioaccumulative potential

Assessment bioaccumulation potential
Based on its structural properties, the polymer is not biologically available. Accumulation in organisms is not to be expected.

Mobility in soil

Assessment transport between environmental compartments
No data available.

Information on: cationic polyacrylamide

Adsorption to solid soil phase is expected.

Additional information

Sum parameter

Chemical oxygen demand (COD):
not determined

Biochemical oxygen demand (BOD):
not determined

Other ecotoxicological advice:
Must not be discharged into the environment. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

13. Disposal considerations

Waste disposal of substance:
Dispose of in accordance with national, state and local regulations.

Container disposal:
Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport Information

Land transport
USDOT
Not classified as a dangerous good under transport regulations

Sea transport
IMDG
Not classified as a dangerous good under transport regulations

Air transport
15. Regulatory Information

**Federal Regulations**

**Registration status:**
Chemical TSCA, US released / listed

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

**State regulations**

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<thead>
<tr>
<th>State RTK</th>
<th>CAS Number</th>
<th>Chemical name</th>
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<tr>
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<td>8042-47-5</td>
<td>White mineral oil (petroleum)</td>
</tr>
<tr>
<td>PA</td>
<td>124-04-9</td>
<td>adipic acid</td>
</tr>
</tbody>
</table>

**Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:**

**WARNING:** This product can expose you to chemicals including ACRYLAMIDE, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

**NFPA Hazard codes:**
Health: 1  Fire: 1  Reactivity: 0  Special:

**HMIS III rating**
Health: 1  Flammability: 1  Physical hazard: 0

16. Other Information

**SDS Prepared by:**
Solenis LLC NA Product Regulations
SDS Prepared on: 2018/08/28

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

Zetag® 7587 END OF DATA SHEET
Insurance Exhibit (West Hartford)

For the purpose of this exhibit: the term "Contractor" shall also include their respective agents, representatives, employees or subcontractors; and the term "Town of West Hartford and West Hartford Board of Education" (hereinafter called the "Town") shall include their respective officers, agents, officials, employees, volunteers, boards and commissions.

The Contractor shall procure and maintain the required insurance coverage against claims that may arise from, or in connection with the services and goods provided by the Contractor for the duration of the contract term, including any and all extensions. The Contractor shall provide the Town with a certificate of insurance confirming compliance with this exhibit prior to commencement of the contract. Such insurance shall be written for not less than specified, or required by applicable federal, state and/or municipal law, regulation or requirement, whichever is greater. The Contractor shall assume any and all premiums and deductibles in the described insurance policies. Both the Contractor and Contractor's insurer(s) agree to have no right of recovery or subrogation against the Town and the described insurance shall be primary coverage. Any failure to comply with the claim reporting provisions of the policy shall not affect coverage provided to the Town. Each required insurance policy shall not be suspended, voided, cancelled or reduced except after thirty (30) days prior written notice, ten (10) days notice for non-payment, has been given to the Town.

All liability policies (with the exception of Worker’s Compensation) shall include the Town of West Hartford, the West Hartford Board of Education, and their respective officers, agents, officials, employees, volunteers, boards and commissions as an Additional Insured and shall include, but not be limited to investigation, defense, settlement, judgment or payment of any legal liability. Failure to maintain the required insurance coverage and Additional Insured Endorsements shall be grounds for termination of the contract. It is agreed that the scope and limits of the insurance specified are minimum requirements and shall in no way limit or exclude the Town from additional limits or coverage provided under each policy. The policies shall be on the occurrence form and must be written by companies licensed to do business in the State of Connecticut. The Town’s Risk Manager shall review any and all exceptions.

Commercial General Liability: $1,000,000 combined single limit per occurrence for bodily injury, personal injury, property damage, contractual liability and products/completed operations. Contractor shall continue to provide products/completed operations coverage for two (2) years after completion of the work.

Automobile Liability and Physical Damage Coverage: $1,000,000 combined single limit per occurrence for any auto, including statutory uninsured/underinsured motorists coverage and $1,000 medical payments. Policy to include collision and comprehensive coverage for any auto used for the purpose of this contract.

Umbrella Liability: $1,000,000 per occurrence, $2,000,000 aggregate following form.

Workers’ Compensation: Statutory limits including Employer’s Liability with limits of $100,000 each accident, $500,000 for each disease/policy limit, and $100,000 for disease for each employee as required by the State of Connecticut. If the Contractor decides not to procure workers’ compensation in accordance with Connecticut law, the Contractor agrees to comply with the Connecticut Workers’ Compensation Act’s (Act) requirements for withdrawing from the provisions of the Act, including, but not limited to, filing the appropriate notice of withdrawal with the commissioner. The Contractor is wholly responsible for taking the actions necessary to withdraw from the provisions of the Act. In lieu of procuring workers’ compensation insurance and providing the Town with proof thereof, the Contractor agrees to hold the Town of West Hartford, the West Hartford Board of Education, their respective boards and commissions, officers, agents, officials, employees, servants, volunteers, contractors and representatives harmless from any and all suits, claims, and actions arising from personal injuries sustained by him during the course of the performance of this contract, however caused.

Personal Property for "all risk" insurance on a replacement cost basis to cover the value of personal property belonging to the Contractor and others (including but not limited to the personal property of subcontractors) located on Town property while in use or in storage for the duration of the contract. Deductible not to exceed $1,000.

Donald C. Helwig
Duly Authorized
3/20/19

Donald C. Helwig
(Print Name Here)
The Contractor shall procure and maintain the required insurance coverage against claims that may arise from, or in connection with the services and goods provided by the Contractor for the duration of the contract term, including any extensions of the term.

Insurance Exhibit (West Hartford)

For the purpose of this exhibit: the term "Contractor" shall also include their respective agents, representatives, employees, servants, volunteers, contractors and representatives harmless from any and all suits, claims, and actions arising from personal injuries sustained by him during the course of the performance of this contract, however caused.

The Contractor agrees to hold the Town of West Hartford Board of Education, and their respective officers, agents, officials, employees, volunteers, boards and commissions as an Additional Insured.

The policies shall be on the occurrence form and must be written by companies licensed to do business in the State of Connecticut. All liability policies (with the exception of Workers Compensation) shall include the Town of West Hartford, the West Hartford Board of Education, and their respective boards and commissions as an Additional Insured.

Each required insurance policy shall not be suspended, voided, cancelled or reduced except after thirty (30) days prior written notice, ten (10) days notice for non-payment, has been given to the Town.

Any failure to comply with the claim reporting provisions of the policy shall not affect coverage provided to the Town.

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Failure to maintain the required insurance coverage and Additional Insured Endorsements will be grounds for termination of the contract.

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It is agreed that the scope and limits of the insurance specified are minimum requirements and shall in no way limit or exclude the Town from additional limits or coverage provided under applicable federal, state and/or municipal law, regulation or requirement, whichever is greater.

The Contractor shall continue to provide coverage for products/completed operations coverage for two (2) years after completion of the work. The Contractor shall procure and maintain the required insurance coverage against claims that may arise from, or in connection with the services and goods provided by the Contractor for the duration of the contract term, including any extensions of the term.

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The Contractor shall continue to provide coverage for products/completed operations coverage for two (2) years after completion of the work.
GENERAL VENDOR INFORMATION

VENDORS ARE ASKED TO FILL OUT THIS FORM SO THAT THEIR BID RESPONSES ARE CONSIDERED COMPLETE.

The undersigned: is aware that any CRPC member may reject any and all bids, or any part of any and all bids; is aware that quantities furnished herein are estimates only; has not included any state or federal taxes for which the CRPC members are not liable; and is making this bid without collusion with any person, individual or corporation.

COMPANY

George S. Coyne Chemical Co., Inc.

REPRESENTATIVE

Sherry Dugan

POSITION

Bid/Contract Administration Department Manager

ADDRESS

3015 State Road

Croydon, PA

(ZIP)

19021

TELEPHONE #

215-785-3000

FAX #

215-785-1585

TAX ID #

23-0497800

E-MAIL ADDRESS

bidadministration@coynechemical.com

SIGNATURE 

Donald C. Helwig, Vice President/CFO

PAYMENT TERMS 

0% Net 30 Days

DATE:

3/20/19
VENDORS ARE ASKED TO FILL OUT THIS FORM SO THAT THEIR BID RESPONSES ARE CONSIDERED COMPLETE.

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Supplier: George S. Coyne Chemical Co., Inc

COMPANY
George S. Coyne Chemical Co., Inc.

REPRESENTATIVE
Sherry Dugan

POSITION
Bid/Contract Administration Department Manager

ADDRESS
3015 State Road
Croydon, PA

ZIP
19021

TELEPHONE #
215-785-3000

FAX #
215-785-1585

TAX ID #
23-0497800

E-MAIL ADDRESS
bidadministration@coynechemical.com

SIGNATURE

Donald C. Helwig, Vice President/CFO

PAYMENT TERMS: 0% Net 30 Days

DATE: 3/20/19
Supplier: George S. Coyne Chemical Co., Inc

CAPITOL REGION PURCHASING COUNCIL
241 MAIN STREET, 4TH FLOOR
HARTFORD, CT 06106

Bid #684: Swimming Pool and Water Treatment Chemicals
Bid Specific Terms & Conditions

I. MODIFICATIONS TO GENERAL TERMS AND CONDITIONS

INTENT
The Capitol Region Purchasing Council (CRPC), on behalf of certain Capitol Region towns, boards of education, and agencies, requests bids for the procurement of Swimming Pool & Water Treatment Chemicals for the period commencing April 1, 2019 and ending March 31, 2020. Each respective CRPC member will make its own awards and payments according to the terms and conditions set forth in these specifications. A written order from each awarding CRPC member will be required before any deliveries commence.

PRODUCT SPECIFICATIONS
The applicable products of the bid proposal shall meet the referenced standards of the American Water Works Association (AWWA). If requested by any of the participating entities, the successful contractor(s) shall furnish written certification that the product(s) supplied meet the applicable AWWA standard(s).

NOTE: Copies of AWWA Standards may be obtained from:
American Water Works Association
6666 West Quincy Avenue
Denver, CO 80235
Telephone: (303) 794-7711
Fax: (303) 794-7310

SAFETY SHEET REQUIREMENT
All contractors must supply, at no cost to the participating entities, Material Data Safety Sheets for any chemical, especially toxic or hazardous compounds.

TESTING
The participating entities reserve the right to have chlorine tested upon request for appropriate concentration levels at the site of delivery. The vendor shall bear the cost of all such tests and deliveries may be refused if concentration levels do not meet specifications.

SPILLAGE
Any spillage at the time of delivery will be the responsibility of the vendor and any costs to repair resultant damages or any penalties assessed against a member agency because of pollution resulting from such spillage shall be borne by the vendor.

SODIUM HYPOCHLORITE SOLUTION – For Disinfection – shall meet AWWA Standard B300 of current issue
Sodium Hypochlorite Solution as described is intended for use in water purification and shall be of High Concentration Industrial type. It shall be free from impurities which shall affect its proper usage and enhance its decomposition. It shall be a clear, greenish-yellowish liquid, free from sediment or suspended matter. It shall be miscible with cold distilled water. It shall be 12.5% or 15% chlorine by weight.
Sodium Hypochlorite Solution shall be packed in containers which comply with the regulations of the U.S. Department of Transportation for the transportation of explosive and other dangerous articles. Sodium Hypochlorite shall be delivered in five-gallon plastic carboys, 55 gallon drums or in bulk.

**CALCIUM HYPOCHLORITE – For Disinfection – shall meet AWWA Standard B300 of current issue**
Calcium Hypochlorite is intended for water treatment purposes and to have 70% available chlorine, by weight HTH, Hi-test, Perchloron or equivalent. It is to be furnished in granular form as specified. 100 pound drums.

**ALUMINIUM SULFATE – For Coagulation – shall meet AWWA Standard B403 of current issue**
Aluminium Sulfate (alum) shall be for water treatment purposes. It is to be furnished in 100 pound, moisture-proof bags (granular form).

**SODA ASH – For Softening – shall meet AWWA Standard B201 of current issue**
Soda Ash (Sodium Carbonate) technical grade over 50% light ash; over 95% Na₂CO₃. It is to be furnished in 60 pound moisture-proof bags and in bulk.

**DIATOMITE FILTER MEDIUM**
Material of diatomite filter shall be Johns-Manville Celite #545 or equal. To be packed in 50 pound bags. (Diatomaceous Earth)

**ALGICIDE**
Algicide is to be liquid, 10% solution in one-gallon containers.

**PHENOL RED INDICATOR**
To be furnished in pint containers

**MURIATIC ACID – Shall meet ASTM Standards Specifications E1146 of current issue**
Bids are requested for 1 gallon and 15 gallon containers.

**SODIUM METABISULFITE SOLUTION 38% TO 40%**
Bids are requested for bulk purchases and 55 gallon drums.

**CYANURIC ACID (POOL CHLORINE STABILIZERS)**
To be furnished in pounds

**CALCIUM CHLORIDE – For scale and corrosion control – shall meet AWWA Standard B550 of current issue**
Granular or flaked – packed in 50 pound waterproof bags.

**SODIUM BICARBONATE – Shall meet ASTM Standard Specification D928 of current issue**
Packed in 50 pound bags.

**SUPER BLUE CRYSTAL CLEAR**
To be furnished in one-half gallon containers

**POTASSIUM PERMANGANATE – For taste and odor control – shall meet AWWA Standard B603 of current issue**
Free-flowing grade in 55 pound drums.

**SODIUM HYDROXIDE 50%/25% SOLUTION**
Bids are requested for 50% solution in 50 gallon drums and 25% in bulk.

**SODIUM THIO SULFATE**
POTASSIUM HYDROXIDE – For scale and corrosion control – shall meet AWWA Standard B511 of current issue
45% caustic potash commercial grade to be furnished in 660 pound containers (55 gallon drums)

PH PLUS
50 pound pails

PH MINUS
50 pound pails

CHLORINE NEUTRALIZER
40 pound pail

TEST KITS
Per kit

PULSAR PLUS BRIQUETTES CALCIUM HYPOCHLORITE, 65% ACTIVE

SODIUM PERMANGANATE
Bids are requested for 50 gallon drums or 250 gallon totes.

ZETAG 7587 DRY POLYMER
Bids are requested for 56 pound bags.

WINTER TABS (Chlorine tablets without cyanuric acid)
Bids are requested in pounds

NON-COPPER ALGICIDE
Bids are requested in gallons.

FRESH N KLEAR
Monopersulfate with sodium carbonate, 25 pound buckets.

SEA KLEAR
Natural H₂O clarifier, twelve 1 quart bottles per case.

GRANULAR CHLORINE

NON-TOXIC ANTIFREEZE

SODIUM BI-SULFITE (NaSO₃) 38% SOLUTION

SODIUM HYPOCHLORITE (NaOCl) 15% SOLUTION

POLY ALUMINUM CHLORIDE (liquid) (PACL)

SODIUM PERMANGANATE (NaMnO₄) SOLUTION

POLYMER STAFLC 128
POLYMER STAFLOC 128
SODIUM PERMANGANATE (NaMnO₄) SOLUTION
POLY ALUMINUM CHLORIDE (liquid) (PACL)
SODIUM BICHLORIDE, GRANULAR
PH MINUS
PH PLUS
SEA KLEAR
Monopersulfate with sodium carbonate, 25 pound buckets.
WINTER TABS (Chlorine tablets without cyanuric acid)
Bids are requested for 56 pound bags.
ZETAG 7587 DRY POLYMER
SODIUM PERMANGANATE
PULSAR PLUS BRIQUETTES CALCIUM HYPOCHLORITE, 65% ACTIVE
Per kit
TEST KITS
40 pound pail
50 pound pails
PH MINUS
50 pound pails
PH PLUS
45% caustic potash commercial grade to be furnished in 660 pound containers (55 gallon drums)
issue
POTASSIUM HYDROXIDE
SODIUM THIO SULFATE
Bids are requested for 50% solution in 50 gallon drums and 25% in bulk.
Free
issue
POTASSIUM PERMANGANATE
To be furnished in one gallon containers, 55 gallon drums.
SUPER BLUE CRYSTAL CLEAR
Packed in 50 pound bags.
CALCIUM CHLORIDE
Bids are requested for bulk purchases and 55 gallon drums.
PHENOL RED INDICATOR
Algicide is to be liquid, 10% solution in one gallon containers.
ALGICIDE
Material of diatomite filter shall be Johns Manville Celite #545 or equal. To be packed in 50 pound bags.
DIATOMITE FILTER MEDIUM
Soda Ash (Sodium Carbonate) technical grade over 50% light ash; over 95% Na₂CO₃ purity shall be provided.
SODA ASH
50% moisture
Aluminium Sulfate (alum) shall be for water treatment purposes. It is to be furnished in 100 pound, proof bags (granular form).
ALUMINIUM SULFATE
Calcium Hypochlorite is intended for water treatment purposes and to have 70% available chlorine, by test, Perchloron or equivalent. It is to be furnished in granular form as specified. 100 pound proof bags and in bulk.
CALCIUM HYPOCHLORITE
Sodium Hypochlorite Solution shall be packed in containers which comply with the regulations of the U.S. Department of Transportation for the transportation of explosive and other dangerous articles.
SODIUM HYPOCHLORITE SOLUTION
shall meet AWWA Standard B201 of current issue
shall meet AWWA Standard B403 of current issue
shall meet AWWA Standard B550 of current issue shall meet AWWA Standard B511 of current issue shall meet AWWA Standard B603 of current issue

NOTE: Copies of AWWA Standards may be obtained from:

The Capitol Region Purchasing Council (CRPC), on behalf of certain Capitol Region towns, boards of education, and agencies, requests bids for the procurement of Swimming Pool & Water Treatment Chemicals

Supplier:
George S. Coyne Chemical Co., Inc
3/27/2019

HARTFORD, CT 06106

Telephone: (303) 794-7310
Fax: (303) 794-7711

Swimming Pool and Water Treatment Chemicals

Bid #684

TOXIC ANTIFREEZE

BidSync

p. 89
ADDENDUM #1 FOR INVITATION TO BID #684 COVERING SWIMMING POOL AND WATER TREATMENT CHEMICALS

This addendum is posted to notify users and vendors that duplicate line items have been removed from the bid.

Please note that all other terms and conditions appearing in the original Invitation to Bid remain. Vendors are asked to sign, date, and return this sheet, along with their bids, in order to verify their receipt of this addendum prior to the specified submission deadline. Please fill out all sections below in order to ensure that your response is considered complete.

Name            Sherry Dugan
Title            Bid Administration Manager
Company         George S. Coyne Chemical Company Inc.
Address         3015 State Road
                Croydon, PA 19021-6997
                (City)               (State)             (Zip)
Telephone       215-785-3000
Signature       Sherry Dugan  Date  3/20/19

Supplier: George S. Coyne Chemical Co., Inc
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<th>Line Item</th>
<th>Notes</th>
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<td></td>
<td>No Bids</td>
<td></td>
</tr>
<tr>
<td>684--01-05</td>
<td>Sodium Hypochlorite</td>
<td></td>
<td></td>
<td></td>
<td>No Bids</td>
<td></td>
</tr>
<tr>
<td>684--01-06</td>
<td>Calcium Hypochlorite</td>
<td></td>
<td></td>
<td></td>
<td>No Bids</td>
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</tr>
<tr>
<td>684--01-07</td>
<td>Aluminum Sulfate</td>
<td></td>
<td></td>
<td></td>
<td>No Bids</td>
<td></td>
</tr>
<tr>
<td>684--01-08</td>
<td>Soda Ash, 50 pound bags</td>
<td></td>
<td></td>
<td></td>
<td>No Bids</td>
<td></td>
</tr>
<tr>
<td>684--01-09</td>
<td>Soda Ash, bulk</td>
<td></td>
<td></td>
<td></td>
<td>No Bids</td>
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</tr>
<tr>
<td>684--01-10</td>
<td>Diatomite Filer celite</td>
<td></td>
<td></td>
<td></td>
<td>No Bids</td>
<td></td>
</tr>
<tr>
<td>684--01-11</td>
<td>Algaicide, 1 gallon container</td>
<td></td>
<td></td>
<td></td>
<td>No Bids</td>
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<tr>
<td>684--01-12</td>
<td>Phenol Red Indicator</td>
<td></td>
<td></td>
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<td>No Bids</td>
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<tr>
<td>684--01-13</td>
<td>Muriatic Acid, 1 gallon containers</td>
<td></td>
<td></td>
<td></td>
<td>No Bids</td>
<td></td>
</tr>
<tr>
<td>684--01-14</td>
<td>Muriatic Acid, 15 gallon container</td>
<td></td>
<td></td>
<td></td>
<td>No Bids</td>
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<tr>
<td>684--01-15</td>
<td>Sodium Metabisulfite</td>
<td></td>
<td></td>
<td></td>
<td>No Bids</td>
<td></td>
</tr>
<tr>
<td>Item #</td>
<td>Line Item</td>
<td>Supplier</td>
<td>Product Code:</td>
<td>First Offer -</td>
<td>Qty/Unit</td>
<td>Total Price</td>
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<tr>
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<tr>
<td>684--01-16</td>
<td>Cyanuric Acid</td>
<td></td>
<td></td>
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<tr>
<td>684--01-17</td>
<td>Calcium Chloride, granular</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>684--01-18</td>
<td>Calcium Chloride, flaked</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>684--01-19</td>
<td>Sodium Bicarbonate</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>684--01-20</td>
<td>Superblue Crystal Clear</td>
<td></td>
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<tr>
<td>684--01-21</td>
<td>Potassium Permanganate</td>
<td></td>
<td></td>
<td>$1.68</td>
<td>1 / pound</td>
<td>$1.68</td>
</tr>
<tr>
<td>684--01-22</td>
<td>Sodium Hydroxide, 50% solution</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>684--01-23</td>
<td>Sodium Hydroxide, 25%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>684--01-24</td>
<td>Sodium Thio Sulfate</td>
<td></td>
<td></td>
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<tr>
<td>684--01-25</td>
<td>Potassium Hydroxide 45%</td>
<td></td>
<td></td>
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<tr>
<td>684--01-26</td>
<td>PH Plus</td>
<td></td>
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<tr>
<td>684--01-27</td>
<td>PH Minus</td>
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<tr>
<td>684--01-28</td>
<td>Chlorine Neutralizer</td>
<td></td>
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<tr>
<td>684--01-29</td>
<td>Test Kits</td>
<td></td>
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<tr>
<td>684--01-30</td>
<td>Pulsar Plus Briquette Calcium Hypochlorite, 65% active</td>
<td></td>
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<tr>
<td>684--01-31</td>
<td>Sodium Permanganate F2SP-20</td>
<td></td>
<td></td>
<td>$9.34</td>
<td>1 / gallon</td>
<td>$9.34</td>
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<tr>
<td>684--01-32</td>
<td>Zetag 7587 Dry Polymer</td>
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<tr>
<td>684--01-33</td>
<td>Winter Tabs</td>
<td></td>
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</tr>
<tr>
<td>684--01-34</td>
<td>Non-Copper Algicide</td>
<td></td>
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<tr>
<td>684--01-35</td>
<td>Fresh N Klear</td>
<td></td>
<td></td>
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<tr>
<td>684--01-36</td>
<td>Sea Klear</td>
<td></td>
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<tr>
<td>684--01-37</td>
<td>Granular Chlorine ProChlo</td>
<td></td>
<td></td>
<td>$1.45</td>
<td>1 / pound</td>
<td>$1.45</td>
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<tr>
<td>684--01-38</td>
<td>Non-toxic Antifreeze</td>
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<tr>
<td>684--01-39</td>
<td>Container Deposit: Potassium Hydroxide 660 lb. drum</td>
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<tr>
<td>684--01-40</td>
<td>Container Deposit: Plastic Carboys</td>
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<tr>
<td>684--01-41</td>
<td>Sodium Bi-Sulfite (NaSO3) 38% solution</td>
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<td>Code</td>
<td>Product</td>
<td>Supplier</td>
<td>Unit Price</td>
<td>Total Price</td>
<td>Qty/Unit</td>
<td>Attch.</td>
</tr>
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<tr>
<td>684--01-42</td>
<td>Sodium Hypochlorite (NaOCL) 15% solution</td>
<td>No Bids</td>
<td>$1.45</td>
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<tr>
<td>684--01-43</td>
<td>Poly Aluminum Chloride (Liquid) (PACL)</td>
<td>No Bids</td>
<td>$9.34</td>
<td></td>
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<td>684--01-44</td>
<td>Polymer StaFloc 128</td>
<td>No Bids</td>
<td>$1.68</td>
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<tr>
<td>684--01-45</td>
<td>MicroC2000</td>
<td>No Bids</td>
<td>$1.73</td>
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<td>Chemrite, Inc.</td>
<td></td>
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<tr>
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<tr>
<td><strong>Item:</strong> Potassium Permanganate</td>
<td></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Attachments</th>
</tr>
</thead>
<tbody>
<tr>
<td>K-0x NSF60.pdf</td>
</tr>
</tbody>
</table>
NSF Product and Service Listings

These NSF Official Listings are current as of **Wednesday, March 27, 2019** at 12:15 a.m. Eastern Time. Please contact NSF to confirm the status of any Listing, report errors, or make suggestions.

Alert: NSF is concerned about fraudulent downloading and manipulation of website text. Always confirm this information by clicking on the below link for the most accurate information:
http://info.nsf.org/Certified/PwsChemicals/Listings.asp?CompanyName=chemrite&TradeName=k%2Dox&

---

**NSF/ANSI 60**
Drinking Water Treatment Chemicals - Health Effects

---

**Chemrite, Inc.**
5202 Belle Wood Court
Suite 104
Buford, GA 30518
United States
877-828-1652
770-271-5578
Visit this company's website (http://www.chemrite.com)

**Facility : # 10**

**Potassium Permanganate[PO]**

<table>
<thead>
<tr>
<th>Trade Designation</th>
<th>Product Function</th>
<th>Max Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>K-Ox</td>
<td>Oxidant</td>
<td>50mg/L</td>
</tr>
</tbody>
</table>

[PO] The finished drinking water shall be monitored to ensure that levels of manganese do not exceed 0.05 mg/L.
<table>
<thead>
<tr>
<th>Chemrite, Inc.</th>
<th>Item: Sodium Permanganate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Attachments</td>
</tr>
<tr>
<td></td>
<td>Sod perm NSF60.pdf</td>
</tr>
</tbody>
</table>
The Public Health and Safety Organization

**NSF Product and Service Listings**

These NSF Official Listings are current as of **Wednesday, March 27, 2019** at 12:15 a.m. Eastern Time. Please contact NSF to confirm the status of any Listing, report errors, or make suggestions.

Alert: NSF is concerned about fraudulent downloading and manipulation of website text. Always confirm this information by clicking on the below link for the most accurate information:


---

**NSF/ANSI 60**

**Drinking Water Treatment Chemicals - Health Effects**

---

**Chemrite, Inc.**
5202 Belle Wood Court
Suite 104
Buford, GA 30518
United States
877-828-1652
770-271-5578
Visit this company's website (http://www.chemrite.com)

**Facility : # 4 USA**

**Sodium Permanganate[PO]**

<table>
<thead>
<tr>
<th>Trade Designation</th>
<th>Product Function</th>
<th>Max Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2SP-15</td>
<td>Oxidant</td>
<td>298mg/L</td>
</tr>
<tr>
<td>F2SP-20</td>
<td>Oxidant</td>
<td>224mg/L</td>
</tr>
<tr>
<td>F2SP-40</td>
<td>Oxidant</td>
<td>112mg/L</td>
</tr>
</tbody>
</table>

[PO] The finished drinking water shall be monitored to ensure that levels of manganese do not exceed 0.05 mg/L.

---

3/27/2019  BidSync  p. 97
Facility: # 5 USA

Sodium Permanganate[1]

<table>
<thead>
<tr>
<th>Trade Designation</th>
<th>Product Function</th>
<th>Max Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2SP20</td>
<td>Oxidant</td>
<td>125mg/L</td>
</tr>
<tr>
<td>F2SP40</td>
<td>Oxidant</td>
<td>50mg/L</td>
</tr>
</tbody>
</table>

[1] The finished drinking water should be monitored to ensure that the levels of manganese do not exceed 0.05 mg/L.

Facility: # 10

Sodium Permanganate

<table>
<thead>
<tr>
<th>Trade Designation</th>
<th>Product Function</th>
<th>Max Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2SP-20[1]</td>
<td>Oxidant</td>
<td>176mg/L</td>
</tr>
</tbody>
</table>

[1] The finished drinking water should be monitored to ensure that levels of manganese do not exceed 0.05 mg/L.
Number of matching Manufacturers is 3
Number of matching Products is 6
Processing time was 0 seconds
<table>
<thead>
<tr>
<th>Chemrite, Inc.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Item:</strong> Granular Chlorine</td>
</tr>
</tbody>
</table>

**Attachments**

- ProChlo Granular Tech.pdf
PRO CHLO
TECHNICAL DATA SHEET

CALCIUM HYPOCHLORITE GRANULAR, HYDRATED

Chemical Name: Calcium Hypochlorite
Chemical Formula: Ca(OCl)₂
Dimensions: Granular
Color: White
Moisture: 5-10%
Stability Loss: 10% Max

Chemical Assay of Calcium Hypochlorite:
Active Ingredient, Calcium Hypochlorite: 65%
Other Ingredients: 35%
Minimal available Chlorine: 65%

Granular product is packaged in 1 lb pouches, 25 lb, 50 lb or 100 lb pails

Granular product is ANSI/NSF Standard 60 for Potable water.
Insurance Exhibit (West Hartford)

For the purpose of this exhibit: the term "Contractor" shall also include their respective agents, representatives, employees or subcontractors; and the term "Town of West Hartford and West Hartford Board of Education" (hereinafter called the "Town") shall include their respective officers, agents, officials, employees, volunteers, boards and commissions.

The Contractor shall procure and maintain the required insurance coverage against claims that may arise from, or in connection with the services and goods provided by the Contractor for the duration of the contract term, including any and all extensions. The Contractor shall provide the Town with a certificate of insurance confirming compliance with this exhibit prior to commencement of the contract. Such insurance shall be written for not less than specified, or required by applicable federal, state and/or municipal law, regulation or requirement, whichever is greater. The Contractor shall assume any and all premiums and deductibles in the described insurance policies. Both the Contractor and Contractor's insurer(s) agree to have no right of recovery or subrogation against the Town and the described insurance shall be primary coverage. Any failure to comply with the claim reporting provisions of the policy shall not affect coverage provided to the Town. Each required insurance policy shall not be suspended, voided, cancelled or reduced except after thirty (30) days prior written notice, ten (10) days notice for non-payment, has been given to the Town.

All liability policies (with the exception of Worker’s Compensation) shall include the Town of West Hartford, the West Hartford Board of Education, and their respective officers, agents, officials, employees, volunteers, boards and commissions as an Additional Insured and shall include, but not be limited to investigation, defense, settlement, judgment or payment of any legal liability. Failure to maintain the required insurance coverage and Additional Insured Endorsements shall be grounds for termination of the contract. It is agreed that the scope and limits of the insurance specified are minimum requirements and shall in no way limit or exclude the Town from additional limits or coverage provided under each policy. The policies shall be on the occurrence form and must be written by companies licensed to do business in the State of Connecticut. The Town’s Risk Manager shall review any and all exceptions.

Commercial General Liability: $1,000,000 combined single limit per occurrence for bodily injury, personal injury, property damage, contractual liability and products/completed operations. Contractor shall continue to provide products/completed operations coverage for two (2) years after completion of the work.

Automobile Liability and Physical Damage Coverage: $1,000,000 combined single limit per occurrence for any auto, including statutory uninsured/underinsured motorists coverage and $1,000 medical payments. Policy to include collision and comprehensive coverage for any auto used for the purpose of this contract.

Umbrella Liability: $1,000,000 per occurrence, $2,000,000 aggregate following form.

Workers’ Compensation: Statutory limits including Employer’s Liability with limits of $100,000 each accident, $500,000 for each disease/policy limit, and $1,000,000 for disease for each employee as required by the State of Connecticut. If the Contractor decides not to procure workers’ compensation in accordance with Connecticut law, the Contractor agrees to comply with the Connecticut Workers’ Compensation Act’s (Act) requirements for withdrawing from the provisions of the Act, including, but not limited to, filing the appropriate notice of withdrawal with the commissioner. The Contractor is wholly responsible for taking the actions necessary to withdraw from the provisions of the Act. In lieu of procuring workers’ compensation insurance and providing the Town with proof thereof, the Contractor agrees to hold the Town of West Hartford, the West Hartford Board of Education, their respective boards and commissions, officers, agents, officials, employees, servants, volunteers, contractors and representatives harmless from any and all suits, claims, and actions arising from personal injuries sustained by him during the course of the performance of this contract, however caused.

Personal Property for "all risk" insurance on a replacement cost basis to cover the value of personal property belonging to the Contractor and others (including but not limited to the personal property of subcontractors) located on Town property while in use or in storage for the duration of the contract. Deductible not to exceed $1,000.

Aaron Opp
Duly Authorized
Date

Aaron Opp
(Print Name Here)

Supplier: Chemrite, Inc.

3/27/2019
BidSync
p. 102
Insurance Exhibit (West Hartford)

For the purpose of this exhibit: the term
"Contractor" shall also include their respective agents, representatives, employees, volunteers, boards and commissions as an Additional Insured.

"Town" shall include their respective officers, agents, officials, employees, volunteers, boards and commissions as an Additional Insured.

Both the Contractor and Contractor's employees, servants, volunteers, contractors and representatives shall be held harmless from any and all suits, claims, and actions arising from personal injuries sustained by him during the course of the performance of this contract, however caused.

Hartford, the West Hartford Board of Education, their respective boards and commissions, officers, agents, officials, employees, volunteers, boards and commissions shall be held harmless from any and all suits, claims, and actions arising from personal injuries sustained by him during the course of the performance of this contract, however caused.

All liability policies (with the exception of Workers Compensation) shall include the Town of West Hartford, the West Hartford Board of Education, and their respective officers, agents, officials, employees, volunteers, boards and commissions as an Additional Insured.

The Contractor shall procure and maintain the required insurance coverage against claims that may arise from, or in connection with, the performance of this contract.

The policies shall be on the occurrence form and must be written by companies licensed to do business in the State of Connecticut.

The Contractor shall provide the Town with a certificate of insurance confirming compliance with this exhibit prior to commencement of the contract.

If the Contractor decides not to procure workers compensation in accordance with Connecticut law, the Contractor agrees to

workers compensation in accordance with Connecticut law, the Contractor agrees to


Statutory limits including Employer's Liability with limits of $100,000 each accident, $500,000 aggregate following form.

Workers Compensation:

Umbrella Liability:

Commercial General Liability:

Automobile Liability and Physical Damage Coverage:

Products/completed operations coverage for two (2) years after completion of the work.

The Town's Risk Manager shall review any and all exceptions.

Failure to maintain the required insurance coverage and Additional Insured Endorsements shall be grounds for termination of the contract.

Any failure to comply with the claim reporting provisions of the policy shall not affect coverage or payment of any legal liability.

All liability policies (with the exception of Workers Compensation) shall be written for not less than specified, or required by applicable federal, state and/or municipal law, regulation or requirement, whichever is greater.

The policies shall be on the occurrence form and must be written by companies licensed to do business in the State of Connecticut.

It is agreed that the scope and limits of the insurance specified are minimum requirements and shall in no way limit or exclude the Town from additional limits or coverage provided under primary coverage.

The policies to include collision and comprehensive coverage for any auto used for the purpose of this contract.

The Contractor shall continue to provide the Town the required insurance coverage until thirty (30) days prior written notice, ten (10) days notice for non-payment, has been given to the Town.

The insurer(s) agree to have no right of recovery or subrogation against the Town and the described insurance shall be assumed any and all premiums and deductibles in the described insurance policies.

Failure to maintain the required insurance coverage and Additional Insured Endorsements shall be grounds for termination of the contract.

The Contractor shall provide the Town with proof thereof, the Contractor agrees to hold the Town of West Hartford responsible for taking the actions necessary to withdraw from the provisions of the Act.

For the purpose of this exhibit: the term "Contractor" shall also include their respective agents, representatives, employees, volunteers, boards and commissions.

It is agreed that the scope and limits of the insurance specified are minimum requirements and shall in no way limit or exclude the Town from additional limits or coverage provided under primary coverage.

The policies shall be on the occurrence form and must be written by companies licensed to do business in the State of Connecticut.
Supplier: Chemrite, Inc.

GENERAL VENDOR INFORMATION

VENDORS ARE ASKED TO FILL OUT THIS FORM SO THAT THEIR BID RESPONSES ARE CONSIDERED COMPLETE.

The undersigned: is aware that any CRPC member may reject any and all bids, or any part of any and all bids; is aware that quantities furnished herein are estimates only; has not included any state or federal taxes for which the CRPC members are not liable; and is making this bid without collusion with any person, individual or corporation.

COMPANY

Chemrite Inc.

REPRESENTATIVE

Aaron Opp

POSITION

VP

ADDRESS

5202 Belle Wood court, STE 104

Buford, GA

(ZIP)

30518

TELEPHONE #

770-271-5576

FAX #

770-271-4068

TAX ID #

58-1825727

E-MAIL ADDRESS

aaron@chemrite.com

PAYMENT TERMS

: 0 % 30 Days

DATE: 03/29/2019
aaron@chemrite.com

SIGNATURE

Aaron Opp

PAYMENT TERMS: 0% 30 Days

DATE: 03/29/2019
Supplier: Chemrite, Inc.

CAPITOL REGION PURCHASING COUNCIL
241 MAIN STREET, 4TH FLOOR
HARTFORD, CT 06106

Bid #684: Swimming Pool and Water Treatment Chemicals
Bid Specific Terms & Conditions

I.  MODIFICATIONS TO GENERAL TERMS AND CONDITIONS

INTENT
The Capitol Region Purchasing Council (CRPC), on behalf of certain Capitol Region towns, boards of education, and agencies, requests bids for the procurement of Swimming Pool & Water Treatment Chemicals for the period commencing April 1, 2019 and ending March 31, 2020. Each respective CRPC member will make its own awards and payments according to the terms and conditions set forth in these specifications. A written order from each awarding CRPC member will be required before any deliveries commence.

PRODUCT SPECIFICATIONS
The applicable products of the bid proposal shall meet the referenced standards of the American Water Works Association (AWWA). If requested by any of the participating entities, the successful contractor(s) shall furnish written certification that the product(s) supplied meet the applicable AWWA standard(s).

NOTE: Copies of AWWA Standards may be obtained from:
American Water Works Association
6666 West Quincy Avenue
Denver, CO 80235
Telephone: (303) 794-7711
Fax: (303) 794-7310

SAFETY SHEET REQUIREMENT
All contractors must supply, at no cost to the participating entities, Material Data Safety Sheets for any chemical, especially toxic or hazardous compounds.

TESTING
The participating entities reserve the right to have chlorine tested upon request for appropriate concentration levels at the site of delivery. The vendor shall bear the cost of all such tests and deliveries may be refused if concentration levels do not meet specifications.

SPILLAGE
Any spillage at the time of delivery will be the responsibility of the vendor and any costs to repair resultant damages or any penalties assessed against a member agency because of pollution resulting from such spillage shall be borne by the vendor.

SODIUM HYPOCHLORITE SOLUTION – For Disinfection – shall meet AWWA Standard B300 of current issue
Sodium Hypochlorite Solution as described is intended for use in water purification and shall be of High Concentration Industrial type. It shall be free from impurities which shall affect its proper usage and enhance its decomposition. It shall be a clear, greenish-yellowish liquid, free from sediment or suspended matter. It shall be miscible with cold distilled water. It shall be 12.5% or 15% chlorine by weight.
Sodium Hypochlorite Solution shall be packed in containers which comply with the regulations of the U.S. Department of Transportation for the transportation of explosive and other dangerous articles. Sodium Hypochlorite shall be delivered in five-gallon plastic carboys, 55 gallon drums or in bulk.

**CALCIUM HYPOCHLORITE – For Disinfection – shall meet AWWA Standard B300 of current issue**
Calcium Hypochlorite is intended for water treatment purposes and to have 70% available chlorine, by weight HTH, Hi-test, Perchloron or equivalent. It is to be furnished in granular form as specified. 100 pound drums.

**ALUMINIUM SULFATE – For Coagulation – shall meet AWWA Standard B403 of current issue**
Aluminium Sulfate (alum) shall be for water treatment purposes. It is to be furnished in 100 pound, moisture-proof bags (granular form).

**SODA ASH – For Softening – shall meet AWWA Standard B201 of current issue**
Soda Ash (Sodium Carbonate) technical grade over 50% light ash; over 95% Na₂CO₃. It is to be furnished in 60 pound moisture-proof bags and in bulk.

**DIATOMITE FILTER MEDIUM**
Material of diatomite filter shall be Johns-Manville Celite #545 or equal. To be packed in 50 pound bags. (Diatomaceous Earth)

**ALGICIDE**
Algicide is to be liquid, 10% solution in one-gallon containers.

**PHENOL RED INDICATOR**
To be furnished in pint containers

**MURIATIC ACID – Shall meet ASTM Standards Specifications E1146 of current issue**
Bids are requested for 1 gallon and 15 gallon containers.

**SODIUM METABISULFITE SOLUTION 38% TO 40%**
Bids are requested for bulk purchases and 55 gallon drums.

**CYANURIC ACID (POOL CHLORINE STABILIZERS)**
To be furnished in pounds

**CALCIUM CHLORIDE – For scale and corrosion control – shall meet AWWA Standard B550 of current issue**
Granular or flaked – packed in 50 pound waterproof bags.

**SODIUM BICARBONATE – Shall meet ASTM Standard Specification D928 of current issue**
Packed in 50 pound bags.

**SUPER BLUE CRYSTAL CLEAR**
To be furnished in one-half gallon containers

**POTASSIUM PERMANGANATE – For taste and odor control – shall meet AWWA Standard B603 of current issue**
Free-flowing grade in 55 pound drums.

**SODIUM HYDROXIDE 50%/25% SOLUTION**
Bids are requested for 50% solution in 50 gallon drums and 25% in bulk.

**SODIUM THIO SULFATE**
100 pound bags

POTASSIUM HYDROXIDE – For scale and corrosion control – shall meet AWWA Standard B511 of current issue
45% caustic potash commercial grade to be furnished in 660 pound containers (55 gallon drums)

PH PLUS
50 pound pails

PH MINUS
50 pound pails

CHLORINE NEUTRALIZER
40 pound pail

TEST KITS
Per kit

PULSAR PLUS BRIQUETTES CALCIUM HYPOCHLORITE, 65% ACTIVE

SODIUM PERMANGANATE
Bids are requested for 50 gallon drums or 250 gallon totes.

ZETAG 7587 DRY POLYMER
Bids are requested for 56 pound bags.

WINTER TABS (Chlorine tablets without cyanuric acid)
Bids are requested in pounds

NON-COPPER ALGICIDE
Bids are requested in gallons.

FRESH N KLEAR
Monopersulfate with sodium carbonate, 25 pound buckets.

SEA KLEAR
Natural H₂O clarifier, twelve 1 quart bottles per case.

GRANULAR CHLORINE

NON-TOXIC ANTIFREEZE

SODIUM BI-SULFITE (NaSO₃) 38% SOLUTION

SODIUM HYPOCHLORITE (NaOCL) 15% SOLUTION

POLY ALUMINUM CHLORIDE (liquid) (PACL)

SODIUM PERMANGANATE (NaMnO₄) SOLUTION

POLYMER STAFLOC 128
Bid Specific Terms & Conditions

American Water Works Association

Capitol Region Council of Governments

684 POLYMER STAFLOC 128

POLY ALUMINUM CHLORIDE (liquid) (PACL)

SODIUM BICHLORIDE (granular)

GRANULAR CHLORINE (solid)

Natural HCl

SEA KLEAR

Monopersulfate with sodium carbonate, 25 pound buckets.

FRESH N KLEAR

Bids are requested in gallons.

NON-CORROSIVE BICHLORIDE (granular)

Bids are requested in pounds

WINTER TABS (Chlorine tablets without cyanuric acid)

Per kit

TEST KITS

PH MINUS

40 pound pail

PH PLUS

50 pound pails

POTASSIUM HYDROXIDE

100 pound bags

Bids are requested for 50% solution in 50 gallon drums and 25% in bulk.

FREE ISSUE POTASSIUM PERMANGANATE

To be furnished in one gallon plastic carboys, 55 gallon drums or in bulk.

ALGICIDE (Diatomaceous Earth)

DIATOMITE FILTER MEDIUM

in 60 pound moisture proof bags (granular form).

SODA ASH

–

ALUMINIUM SULFATE

Free issue

–

CALCIUM HYPOCHLORITE

Calcium Hypochlorite is intended for water treatment purposes and to have 70% available chlorine, by weight. It must comply with the regulations of the U.S. Department of Transportation for the transportation of explosive and other dangerous articles.

SODIUM HYPOCHLORITE SOLUTION

SODIUM HYPOCHLORITE SOLUTION shall be packed in containers which comply with the regulations of the U.S. Department of Transportation for the transportation of explosive and other dangerous articles.

SODIUM METABISULFITE SOLUTION

SODIUM METABISULFITE SOLUTION 38% TO 40% shall be delivered in five gallon plastic carboys, 55 gallon drums or in bulk.

PHENOL RED INDICATOR

Algicide is to be liquid, 10% solution in one gallon plastic carboys, 55 gallon drums or in bulk.

Cyanuric Acid (Pool Chlorine Stabilizers)

The participating entities reserve the right to have chlorine tested upon request. Any spillage at the time of delivery will be the responsibility of the vendor and any costs to repair damage to buildings or equipment, misguided by such spillage shall be borne by the vendor.

Chemical analysis of the chlorine provided shall be performed on samples taken by a representative of the participating entities. The participating entities reserve the right to have chemical analysis performed at any time at their sole expense and may be refused if concentration levels do not meet specifications.

Sodium hypochlorite solution as described is intended for use in water purification and shall be of High Concentration Industrial type. It shall be free from impurities which shall affect its proper usage and enhance its decomposition. It shall be a clear, greenish yellowish liquid, free from sediment or suspended matter. It shall be miscible with cold distilled water. It shall be 12.5% or 15% chlorine by weight.

To be furnished in pint containers to be used for water disinfection.

To be furnished in pounds to be used for scale and corrosion control.

To be furnished in gallons to be used for taste and odor control.

To be furnished in 100 pound, moisture proof bags (granular form).

For scale and corrosion control shall meet AWWA Standard B511 of current issue

For taste and odor control shall meet AWWA Standard B603 of current issue

For disinfection shall meet AWWA Standard B300 of current issue

Shall meet ASTM Standard Specification D928 of current issue

For coagulation shall meet AWWA Standard B201 of current issue

For scale and corrosion control shall meet AWWA Standard B550 of current issue

Shall meet ASTM Standard Specification D928 of current issue

The applicable products of the bid proposal shall meet the referenced standards of the American Water Association (AWWA). If requested by any of the participating entities, the successful contractor(s) shall furnish written certification that the product(s) supplied meet the applicable AWWA standard(s).

Chemrites, Inc.

Any spillage at the time of delivery will be the responsibility of the vendor and any costs to repair damage to buildings or equipment, misguided by such spillage shall be borne by the vendor.

Upon request the participating entities will supply Material Safety Data Sheets for any hazardous materials or hazardous waste.

All contractors must supply, at no cost to the participating entities, Material Data Safety Sheets for any chemicals handled in the course of performance of the contract.

The participating entities reserve the right to have chlorine tested upon request. Any spillage at the time of delivery will be the responsibility of the vendor and any costs to repair damage to buildings or equipment, misguided by such spillage shall be borne by the vendor.

The participating entities reserve the right to have chemicals analyzed at any time at their sole expense and may be refused if concentration levels do not meet specifications.

All contractors must supply Material Safety Data Sheets for any chemicals handled in the course of performance of the contract.

Capitol Region Purchasing Council (CRPC) telephone: (303) 794-7711 FAX: (303) 794-7310

The Capitol Region Purchasing Council (CRPC), on behalf of certain Capitol Region towns, boards of education, and agencies, requests bids for the procurement of Swimming Pool and Water Treatment Chemicals.

Bid #684: Swimming Pool and Water Treatment Chemicals

Contractors shall submit their bid for each item listed in the Chemicals section. The participating entities reserve the right to change the quantities of any individual item or to combine groups of items where it is determined to be in the best interest of the participating entities.

The participating entities reserve the right to enter into multiple contracts with the same contractor(s). The participating entities reserve the right to enter into contracts with more than one contractor(s) for the items listed in this document.

The participating entities reserve the right to negotiate with contractors during the bid process to achieve the best overall value from the participating entities.

All contractors shall furnish written certification that the product(s) supplied meet the applicable AWWA standard(s).

The participating entities reserve the right to have chlorine tested upon request. Any spillage at the time of delivery will be the responsibility of the vendor and any costs to repair damage to buildings or equipment, misguided by such spillage shall be borne by the vendor.

The participating entities reserve the right to have chemicals analyzed at any time at their sole expense and may be refused if concentration levels do not meet specifications.

All contractors must supply, at no cost to the participating entities, Material Data Safety Sheets for any chemicals handled in the course of performance of the contract.

The participating entities reserve the right to have chlorine tested upon request. Any spillage at the time of delivery will be the responsibility of the vendor and any costs to repair damage to buildings or equipment, misguided by such spillage shall be borne by the vendor.

The participating entities reserve the right to have chemicals analyzed at any time at their sole expense and may be refused if concentration levels do not meet specifications.

All contractors must supply Material Safety Data Sheets for any chemicals handled in the course of performance of the contract.

Chemrites, Inc.

Any spillage at the time of delivery will be the responsibility of the vendor and any costs to repair damage to buildings or equipment, misguided by such spillage shall be borne by the vendor.

Upon request the participating entities will supply Material Safety Data Sheets for any hazardous materials or hazardous waste.

All contractors must supply, at no cost to the participating entities, Material Data Safety Sheets for any chemicals handled in the course of performance of the contract.

The participating entities reserve the right to have chlorine tested upon request. Any spillage at the time of delivery will be the responsibility of the vendor and any costs to repair damage to buildings or equipment, misguided by such spillage shall be borne by the vendor.

The participating entities reserve the right to have chemicals analyzed at any time at their sole expense and may be refused if concentration levels do not meet specifications.

All contractors must supply Material Safety Data Sheets for any chemicals handled in the course of performance of the contract.

Chemrites, Inc.

Any spillage at the time of delivery will be the responsibility of the vendor and any costs to repair damage to buildings or equipment, misguided by such spillage shall be borne by the vendor.

Upon request the participating entities will supply Material Safety Data Sheets for any hazardous materials or hazardous waste.

All contractors must supply, at no cost to the participating entities, Material Data Safety Sheets for any chemicals handled in the course of performance of the contract.

The participating entities reserve the right to have chlorine tested upon request. Any spillage at the time of delivery will be the responsibility of the vendor and any costs to repair damage to buildings or equipment, misguided by such spillage shall be borne by the vendor.

The participating entities reserve the right to have chemicals analyzed at any time at their sole expense and may be refused if concentration levels do not meet specifications.

All contractors must supply Material Safety Data Sheets for any chemicals handled in the course of performance of the contract.
ADDENDUM #1 FOR INVITATION TO BID #684 COVERING SWIMMING POOL AND WATER TREATMENT CHEMICALS

This addendum is posted to notify users and vendors that duplicate line items have been removed from the bid.

Please note that all other terms and conditions appearing in the original Invitation to Bid remain. Vendors are asked to sign, date, and return this sheet, along with their bids, in order to verify their receipt of this addendum prior to the specified submission deadline. Please fill out all sections below in order to ensure that your response is considered complete.

Name: Aaron Opp
Title: VP
Company: Chemrite
Address: 5202 Belle Wood Court, STE 104 Buford GA 30518
Telephone: 17702715576
Signature: Aaron Opp Date: 032619
### Holland Company Inc

**Bid Contact**  
Patrick Burke  
matt.holland@hollandcompany.com  
Ph 413-743-1292  

**Address**  
153 Howland Ave  
Adams, MA 01220

**Qualifications**  
SB

<table>
<thead>
<tr>
<th>Item #</th>
<th>Line Item</th>
<th>Notes</th>
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<th>Qty/Unit</th>
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<td>684--01-27</td>
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<td>PH Minus</td>
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<td>684--01-28</td>
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<td>Chlorine Neutralizer</td>
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<td>Pulsar Plus Briquette Calcium Hypochlorite, 65% active</td>
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<td>Winter Tabs</td>
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<td>684--01-35</td>
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<td>Sea Klear</td>
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<td>684--01-37</td>
<td>Granular Chlorine</td>
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<td>684--01-38</td>
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<td>684--01-39</td>
<td>Container Deposit: Potassium Hydroxide 660 lb. drum</td>
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<td>684--01-40</td>
<td>Container Deposit: Plastic Carboys</td>
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<td>684--01-41</td>
<td>Sodium Bi-Sulfite (NaSO3) 38% solution</td>
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<td>684--01-42</td>
<td>Sodium Hypochlorite (NaOCL) 15% solution</td>
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<td>684--01-43</td>
<td>Poly Aluminum Chloride (Liquid) (PACL)</td>
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<td>684--01-44</td>
<td>Polymer StaFloc 128</td>
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<td>684--01-45</td>
<td>MicroC2000</td>
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Insurance Exhibit (West Hartford)

For the purpose of this exhibit: the term "Contractor" shall also include their respective agents, representatives, employees or subcontractors; and the term "Town of West Hartford and West Hartford Board of Education" (hereinafter called the "Town") shall include their respective officers, agents, officials, employees, volunteers, boards and commissions.

The Contractor shall procure and maintain the required insurance coverage against claims that may arise from, or in connection with the services and goods provided by the Contractor for the duration of the contract term, including any and all extensions. The Contractor shall provide the Town with a certificate of insurance confirming compliance with this exhibit prior to commencement of the contract. Such insurance shall be written for not less than specified, or required by applicable federal, state and/or municipal law, regulation or requirement, whichever is greater. The Contractor shall assume any and all premiums and deductibles in the described insurance policies. Both the Contractor and Contractor's insurer(s) agree to have no right of recovery or subrogation against the Town and the described insurance shall be primary coverage. Any failure to comply with the claim reporting provisions of the policy shall not affect coverage provided to the Town. Each required insurance policy shall not be suspended, voided, cancelled or reduced except after thirty (30) days prior written notice, ten (10) days notice for non-payment, has been given to the Town.

All liability policies (with the exception of Worker’s Compensation) shall include the Town of West Hartford, the West Hartford Board of Education, and their respective officers, agents, officials, employees, volunteers, boards and commissions as an Additional Insured and shall include, but not be limited to investigation, defense, settlement, judgment or payment of any legal liability. Failure to maintain the required insurance coverage and Additional Insured Endorsements shall be grounds for termination of the contract. It is agreed that the scope and limits of the insurance specified are minimum requirements and shall in no way limit or exclude the Town from additional limits or coverage provided under each policy. The policies shall be on the occurrence form and must be written by companies licensed to do business in the State of Connecticut. The Town’s Risk Manager shall review any and all exceptions.

Commercial General Liability: $1,000,000 combined single limit per occurrence for bodily injury, personal injury, property damage, contractual liability and products/completed operations. Contractor shall continue to provide products/completed operations coverage for two (2) years after completion of the work.

Automobile Liability and Physical Damage Coverage: $1,000,000 combined single limit per occurrence for any auto, including statutory uninsured/underinsured motorists coverage and $1,000 medical payments. Policy to include collision and comprehensive coverage for any auto used for the purpose of this contract.

Umbrella Liability: $1,000,000 per occurrence, $2,000,000 aggregate following form.

Workers’ Compensation: Statutory limits including Employer’s Liability with limits of $100,000 each accident, $500,000 for each disease/policy limit, and $100,000 for disease for each employee as required by the State of Connecticut. If the Contractor decides not to procure workers’ compensation in accordance with Connecticut law, the Contractor agrees to comply with the Connecticut Workers’ Compensation Act’s (Act) requirements for withdrawing from the provisions of the Act, including, but not limited to, filing the appropriate notice of withdrawal with the commissioner. The Contractor is wholly responsible for taking the actions necessary to withdraw from the provisions of the Act. In lieu of procuring workers’ compensation insurance and providing the Town with proof thereof, the Contractor agrees to hold the Town of West Hartford, the West Hartford Board of Education, their respective boards and commissions, officers, agents, officials, employees, servants, volunteers, contractors and representatives harmless from any and all suits, claims, and actions arising from personal injuries sustained by him during the course of the performance of this contract, however caused.

Personal Property for "all risk" insurance on a replacement cost basis to cover the value of personal property belonging to the Contractor and others (including but not limited to the personal property of subcontractors) located on Town property while in use or in storage for the duration of the contract. Deductible not to exceed $1,000.

Holland Company
Duly Authorized
Matthew Holland
(Print Name Here)

3/22/19
Date
The Contractor shall procure and maintain the required insurance coverage against claims that may arise from, or in connection with the services and goods provided by the Contractor for the duration of the contract term, including any extensions.

The Town(s) shall include their respective officers, agents, officials, employees, volunteers, boards and commissions as Additional Insured.

All liability policies (with the exception of Workers Compensation) shall include, but not be limited to investigation, defense, settlement, judgment and shall include, but not be limited to investigation, defense, settlement, judgment.

The policies shall be on the occurrence form and must be written by companies licensed to do business in Connecticut. The policies shall be written in primary coverage.

The Contractor shall provide the Town with a certificate of insurance confirming compliance with this exhibit prior to commencement of the contract.
GENERAL VENDOR INFORMATION

VENDORS ARE ASKED TO FILL OUT THIS FORM SO THAT THEIR BID RESPONSES ARE CONSIDERED COMPLETE.

The undersigned: is aware that any CRPC member may reject any and all bids, or any part of any and all bids; is aware that quantities furnished herein are estimates only; has not included any state or federal taxes for which the CRPC members are not liable; and is making this bid without collusion with any person, individual or corporation.

COMPANY

HOLLAND COMPANY

REPRESENTATIVE

Matthew Holland

POSITION

Manager

ADDRESS

153 HOWLAND AVE

ADAMS, MA

(ZIP)

01220

TELEPHONE #

413 743 1292

FAX #

413 743 1298

TAX ID #

04-2437350

E-MAIL ADDRESS
matt.holland@HOLLANDCOMPANY.COM

SIGNATURE

Matthew B. Holland

PAYMENT TERMS: 0% 30 Days

DATE: 3/27/18
Supplier: Holland Company Inc

CAPITOL REGION PURCHASING COUNCIL
241 MAIN STREET, 4TH FLOOR
HARTFORD, CT 06106

Bid #684: Swimming Pool and Water Treatment Chemicals
Bid Specific Terms & Conditions

I. MODIFICATIONS TO GENERAL TERMS AND CONDITIONS

INTENT
The Capitol Region Purchasing Council (CRPC), on behalf of certain Capitol Region towns, boards of education, and agencies, requests bids for the procurement of Swimming Pool & Water Treatment Chemicals for the period commencing April 1, 2019 and ending March 31, 2020. Each respective CRPC member will make its own awards and payments according to the terms and conditions set forth in these specifications. A written order from each awarding CRPC member will be required before any deliveries commence.

PRODUCT SPECIFICATIONS
The applicable products of the bid proposal shall meet the referenced standards of the American Water Works Association (AWWA). If requested by any of the participating entities, the successful contractor(s) shall furnish written certification that the product(s) supplied meet the applicable AWWA standard(s).

NOTE: Copies of AWWA Standards may be obtained from:
American Water Works Association
6666 West Quincy Avenue
Denver, CO 80235
Telephone: (303) 794-7711
Fax: (303) 794-7310

SAFETY SHEET REQUIREMENT
All contractors must supply, at no cost to the participating entities, Material Data Safety Sheets for any chemical, especially toxic or hazardous compounds.

TESTING
The participating entities reserve the right to have chlorine tested upon request for appropriate concentration levels at the site of delivery. The vendor shall bear the cost of all such tests and deliveries may be refused if concentration levels do not meet specifications.

SPILLAGE
Any spillage at the time of delivery will be the responsibility of the vendor and any costs to repair resultant damages or any penalties assessed against a member agency because of pollution resulting from such spillage shall be borne by the vendor.

SODIUM HYPOCHLORITE SOLUTION – For Disinfection – shall meet AWWA Standard B300 of current issue
Sodium Hypochlorite Solution as described is intended for use in water purification and shall be of High Concentration Industrial type. It shall be free from impurities which shall affect its proper usage and enhance its decomposition. It shall be a clear, greenish-yellowish liquid, free from sediment or suspended matter. It shall be miscible with cold distilled water. It shall be 12.5% or 15% chlorine by weight.
Sodium Hypochlorite Solution shall be packed in containers which comply with the regulations of the U.S. Department of Transportation for the transportation of explosive and other dangerous articles. Sodium Hypochlorite shall be delivered in five-gallon plastic carboys, 55 gallon drums or in bulk.

**CALCIUM HYPOCHLORITE – For Disinfection – shall meet AWWA Standard B300 of current issue**
Calcium Hypochlorite is intended for water treatment purposes and to have 70% available chlorine, by weight HTH, Hi-test, Perchloron or equivalent. It is to be furnished in granular form as specified. 100 pound drums.

**ALUMINIUM SULFATE – For Coagulation – shall meet AWWA Standard B403 of current issue**
Aluminium Sulfate (alum) shall be for water treatment purposes. It is to be furnished in 100 pound, moisture-proof bags (granular form).

**SODA ASH – For Softening – shall meet AWWA Standard B201 of current issue**
Soda Ash (Sodium Carbonate) technical grade over 50% light ash; over 95% $\text{Na}_2\text{CO}_3$. It is to be furnished in 60 pound moisture-proof bags and in bulk.

**DIATOMITE FILTER MEDIUM**
Material of diatomite filter shall be Johns-Manville Celite #545 or equal. To be packed in 50 pound bags. (Diatomaceous Earth)

**ALGICIDE**
Algicide is to be liquid, 10% solution in one-gallon containers.

**PHENOL RED INDICATOR**
To be furnished in pint containers

**MURIATIC ACID – Shall meet ASTM Standards Specifications E1146 of current issue**
Bids are requested for 1 gallon and 15 gallon containers.

**SODIUM METABISULFITE SOLUTION 38% TO 40%**
Bids are requested for bulk purchases and 55 gallon drums.

**CYANURIC ACID (POOL CHLORINE STABILIZERS)**
To be furnished in pounds

**CALCIUM CHLORIDE – For scale and corrosion control – shall meet AWWA Standard B550 of current issue**
Granular or flaked – packed in 50 pound waterproof bags.

**SODIUM BICARBONATE – Shall meet ASTM Standard Specification D928 of current issue**
Packed in 50 pound bags.

**SUPER BLUE CRYSTAL CLEAR**
To be furnished in one-half gallon containers

**POTASSIUM PERMANGANATE – For taste and odor control – shall meet AWWA Standard B603 of current issue**
Free-flowing grade in 55 pound drums.

**SODIUM HYDROXIDE 50%/25% SOLUTION**
Bids are requested for 50% solution in 50 gallon drums and 25% in bulk.

**SODIUM THIO SULFATE**
POTASSIUM HYDROXIDE – For scale and corrosion control – shall meet AWWA Standard B511 of current issue
45% caustic potash commercial grade to be furnished in 660 pound containers (55 gallon drums)

PH PLUS
50 pound pails

PH MINUS
50 pound pails

CHLORINE NEUTRALIZER
40 pound pail

TEST KITS
Per kit

PULSAR PLUS BRIQUETTES CALCIUM HYPOCHLORITE, 65% ACTIVE

SODIUM PERMANGANATE
Bids are requested for 50 gallon drums or 250 gallon totes.

ZETAG 7587 DRY POLYMER
Bids are requested for 56 pound bags.

WINTER TABS (Chlorine tablets without cyanuric acid)
Bids are requested in pounds

NON-COPPER ALGICIDE
Bids are requested in gallons.

FRESH N KLEAR
Monopersulfate with sodium carbonate, 25 pound buckets.

SEA KLEAR
Natural H₂O clarifier, twelve 1 quart bottles per case.

GRANULAR CHLORINE

NON-TOXIC ANTIFREEZE

SODIUM BI-SULFITE (NaSO₃) 38% SOLUTION

SODIUM HYPOCHLORITE (NaOCl) 15% SOLUTION

POLY ALUMINUM CHLORIDE (liquid) (PACL)

SODIUM PERMANGANATE (NaMnO₄) SOLUTION

POLYMER STAFLOC 128
POLYMER STAFLOC 128
SODIUM PERMANGANATE (NaMnO4) SOLUTION
POLY ALUMINUM CHLORIDE (liquid) (PACL)
SODIUM HYPOCHLORITE (NaOCL) 15% SOLUTION
SODIUM BICARBONATE
Granular or flaked
CALCIUM CHLORIDE
To be furnished in pounds
CYANURIC ACID (POOL CHLORINE STABILIZERS)
SODIUM METABISULFITE SOLUTION 38% TO 40%
MURIATIC ACID
To be furnished in pint containers
PHENOL RED INDICATOR
ALGICIDE (Diatomaceous Earth)
DIATOMITE FILTER MEDIUM in 60 pound moisture
Aluminium Sulfate (alum) shall be for water treatment purposes. It is to be furnished in 100 pound,
ALUMINIUM SULFATE
Calcium Hypochlorite is intended for water treatment purposes and to have 70% available chlorine, by
CALCIUM HYPOCHLORITE
Sodium Hypochlorite shall be delivered in five gallon plastic carboys, 55 gallon drums or in bulk.
SODIUM HYPOCHLORITE SOLUTION as described is intended for use in water purification and shall be of High
SODIUM HYPOCHLORITE SOLUTION
Any spillage at the time of delivery will be the responsibility of the vendor and any costs to repair
concentration levels at the site of delivery. The vendor shall bear the cost of all such tests and deliveries
TESTING chemical, especially toxic or hazardous compounds.
shall furnish written certification that the product(s) supplied meet the applicable AWWA standard(s).
The applicable products of the bid proposal shall meet the referenced standards of the American Water
PRODUCT SPECIFICATIONS
The participating entities reserve the right to have chlorine tested
upon request
I. MODIFICATIONS TO GENERAL TERMS AND CONDITIONS
Supplier:
Holland Company Inc

CAPITOL REGION PURCHASING COUNCIL
241 MAIN STREET, 4
TH FLOOR
HARTFORD, CT 06106
Bid #684: Swimming Pool and Water Treatment Chemicals

Supplier: 

3/27/2019
BidSync
Supplier: Holland Company Inc

ADDENDUM #1 FOR INVITATION TO BID #684 COVERING SWIMMING POOL AND WATER TREATMENT CHEMICALS

This addendum is posted to notify users and vendors that duplicate line items have been removed from the bid.

Please note that all other terms and conditions appearing in the original Invitation to Bid remain. Vendors are asked to sign, date, and return this sheet, along with their bids, in order to verify their receipt of this addendum prior to the specified submission deadline. Please fill out all sections below in order to ensure that your response is considered complete.

<table>
<thead>
<tr>
<th>Name</th>
<th>Matthew B. Holland</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>Manager</td>
</tr>
<tr>
<td>Company</td>
<td>Holland Company, Inc,</td>
</tr>
<tr>
<td>Address</td>
<td>153 Howland Avenue</td>
</tr>
<tr>
<td></td>
<td>Adams, MA 01220-1199</td>
</tr>
<tr>
<td></td>
<td>(City) (State) (Zip)</td>
</tr>
<tr>
<td>Telephone</td>
<td>413-743-1292</td>
</tr>
<tr>
<td>Signature</td>
<td>Matthew B. Holland</td>
</tr>
<tr>
<td>Date</td>
<td>3/22/19</td>
</tr>
<tr>
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<td>Line Item</td>
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<tr>
<td>684--01-01</td>
<td>Sodium Hypochlorite 12.5% available chlorine, 5 gallon carboys</td>
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<td>684--01-02</td>
<td>Sodium Hypochlorite 12.5% available chlorine, 55 gallon drums</td>
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<td>684--01-03</td>
<td>Sodium Hypochlorite 12.5% available chlorine, bulk</td>
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<td>Sodium Hypochlorite 15% available chlorine, 5 gallon carboys</td>
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<td>684--01-05</td>
<td>Sodium Hypochlorite 15% available chlorine, bulk</td>
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<td>684--01-06</td>
<td>Calcium Hypochlorite HTH Granular, 100 pound drum</td>
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<td>684--01-07</td>
<td>Aluminum Sulfate Granular, 100 pound bags</td>
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<td>684--01-08</td>
<td>Soda Ash, 50 pound bags</td>
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<td>684--01-09</td>
<td>Soda Ash, bulk</td>
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<td>Diatomite Filer cellite</td>
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<tr>
<td>684--01-11</td>
<td>Algid 1 gallon container</td>
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<td>Phenol Red Indicator</td>
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<td>684--01-13</td>
<td>Muriatic Acid, 1 gallon containers</td>
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<td>684--01-14</td>
<td>Muriatic Acid, 15 gallon container</td>
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<td>684--01-15</td>
<td>Sodium Metabisulfite Solution 38% to 40%</td>
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<tr>
<td>684--01-16</td>
<td>Cyanuric Acid</td>
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<td>684--01-17</td>
<td>Calcium Chloride, granular</td>
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<td>Calcium Chloride, flaked</td>
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<td>Sodium Bicarbonate</td>
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<td>Superblue Crystal Clear</td>
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<td>Sodium Hydroxide, 25%</td>
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<td>684-01-25</td>
<td>Potassium Hydroxide 45%</td>
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<td>684-01-28</td>
<td>Chlorine Neutralizer</td>
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<td>684-01-29</td>
<td>Test Kits</td>
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<td>684-01-30</td>
<td>Pulsar Plus Briquette Calcium Hypochlorite, 65% active</td>
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<td>Zetag 7587 Dry Polymer</td>
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<td>Winter Tabs</td>
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<td>Non-Copper Algicide</td>
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<td>684-01-35</td>
<td>Fresh N Klear</td>
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<td>684-01-36</td>
<td>Sea Klear</td>
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<td>684-01-37</td>
<td>Granular Chlorine</td>
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<td>Non-toxic Antifreeze</td>
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<td>684-01-39</td>
<td>Container Deposit: Potassium Hydroxide 660 lb. drum</td>
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<td>684-01-40</td>
<td>Container Deposit: Plastic Carboys</td>
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<td>684-01-41</td>
<td>Sodium Bi-Sulfite (NaSO3) 38% solution</td>
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<tr>
<td>684-01-42</td>
<td>Sodium</td>
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<tr>
<td>684-01-43</td>
<td>Poly Aluminum Chloride (Liquid) (PACL)</td>
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<td>684-01-44</td>
<td>Polymer StaFloc 128</td>
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<tr>
<td>684-01-45</td>
<td>MicroC2000</td>
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</table>
Insurance Exhibit (West Hartford)

For the purpose of this exhibit: the term "Contractor" shall also include their respective agents, representatives, employees or subcontractors; and the term "Town of West Hartford and West Hartford Board of Education" (hereinafter called the "Town") shall include their respective officers, agents, officials, employees, volunteers, boards and commissions.

The Contractor shall procure and maintain the required insurance coverage against claims that may arise from, or in connection with the services and goods provided by the Contractor for the duration of the contract term, including any and all extensions. The Contractor shall provide the Town with a certificate of insurance confirming compliance with this exhibit prior to commencement of the contract. Such insurance shall be written for not less than specified, or required by applicable federal, state and/or municipal law, regulation or requirement, whichever is greater. The Contractor shall assume any and all premiums and deductibles in the described insurance policies. Both the Contractor and Contractor's insurer(s) agree to have no right of recovery or subrogation against the Town and the described insurance shall be primary coverage. Any failure to comply with the claim reporting provisions of the policy shall not affect coverage provided to the Town. Each required insurance policy shall not be suspended, voided, cancelled or reduced except after thirty (30) days prior written notice, ten (10) days notice for non-payment, has been given to the Town.

All liability policies (with the exception of Worker's Compensation) shall include the Town of West Hartford, the West Hartford Board of Education, and their respective officers, agents, officials, employees, volunteers, boards and commissions as an Additional Insured and shall include, but not be limited to investigation, defense, settlement, judgment or payment of any legal liability. Failure to maintain the required insurance coverage and Additional Insured Endorsements shall be grounds for termination of the contract. It is agreed that the scope and limits of the insurance specified are minimum requirements and shall in no way limit or exclude the Town from additional limits or coverage provided under each policy. The policies shall be on the occurrence form and must be written by companies licensed to do business in the State of Connecticut. The Town's Risk Manager shall review any and all exceptions.

Commercial General Liability: $1,000,000 combined single limit per occurrence for bodily injury, personal injury, property damage, contractual liability and products/completed operations. Contractor shall continue to provide products/completed operations coverage for two (2) years after completion of the work.

Automobile Liability and Physical Damage Coverage: $1,000,000 combined single limit per occurrence for any auto, including statutory uninsured/underinsured motorists coverage and $1,000 medical payments. Policy to include collision and comprehensive coverage for any auto used for the purpose of this contract.

Umbrella Liability: $1,000,000 per occurrence, $2,000,000 aggregate following form.

Workers' Compensation: Statutory limits including Employer's Liability with limits of $100,000 each accident, $500,000 for each disease/policy limit, and $100,000 for disease for each employee as required by the State of Connecticut. If the Contractor decides not to procure workers' compensation in accordance with Connecticut law, the Contractor agrees to comply with the Connecticut Workers' Compensation Act's (Act) requirements for withdrawing from the provisions of the Act, including, but not limited to, filing the appropriate notice of withdrawal with the commissioner. The Contractor is wholly responsible for taking the actions necessary to withdraw from the provisions of the Act. In lieu of procuring workers' compensation insurance and providing the Town with proof thereof, the Contractor agrees to hold the Town of West Hartford, the West Hartford Board of Education, their respective boards and commissions, officers, agents, officials, employees, servants, volunteers, contractors and representatives harmless from any and all suits, claims, and actions arising from personal injuries sustained by him during the course of the performance of this contract, however caused.

Personal Property for "all risk" insurance on a replacement cost basis to cover the value of personal property belonging to the Contractor and others (including but not limited to the personal property of subcontractors) located on Town property while in use or in storage for the duration of the contract. Deductible not to exceed $1,000.

Kenneth Camello, president
Duly Authorized
3/25/2008

Kenneth Camello
(Print Name Here)
while in use or in storage for the duration of the contract. Deductible not to exceed $1,000.

the Contractor and others (including but not limited to the personal property of subcontractors) located on Town property

Personal Property

from personal injuries sustained by him during the course of the performance of this contract, however caused.

employees, servants, volunteers, contractors and representatives harmless from any and all suits, claims, and actions arising

Hartford, the West Hartford Board of Education, their respective boards and commissions, officers, agents, officials,

compensation insurance and providing the Town with proof thereof, the Contractor agrees to hold the Town of West

responsible for taking the actions necessary to withdraw from the provisions of the Act.

Act, including, but not limited to, filing the appropriate notice of withdrawal with the commissioner.

comply with the Connecticut Workers

contracted workers or subcontractors; and the term “Town of West Hartford and West Hartford Board of Education” (hereinafter called the

Umbrella Liability:

and comprehensive coverage for any auto used for the purpose of this contract.

Automobile Liability and Physical Damage Coverage:

including statutory uninsured/underinsured motorists coverage and $1,000 medical payments.

Commercial General Liability:

$1,000,000 per occurrence, $2,000,000 aggregate following form.

Workers

Statutory limits including Employer's Liability with limits of $100,000 each accident, $500,000

Workers Compensation:

each policy.

minimum requirements and shall in no way limit or exclude the Town from additional limits or coverage provided under

shall be grounds for termination of the contract.

or payment of any legal liability

comer(s) agree to have no right of recovery or subrogation against the Town and the described insurance shall be

assume any and all premiums and deductibles in the described insurance policies.

applicable federal, state and/or municipal law, regulation or requirement, whichever is greater.

exhibit prior to commencement of the contract.

The Contractor shall procure and maintain the required insurance coverage against claims that may arise from, or in

For the purpose of this exhibit: the term

“Contractor” shall include their respective agents, representatives, employees

“Town”) shall include their respective officers, agents, officials, employees, volunteers, boards and commissions as an Additional Insured

Savol

Kenneth Camello, president

Date

Kenneth Camello

(Print Name Here)
GENERAL VENDOR INFORMATION

VENDORS ARE ASKED TO FILL OUT THIS FORM SO THAT THEIR BID RESPONSES ARE CONSIDERED COMPLETE.

The undersigned: is aware that any CRPC member may reject any and all bids, or any part of any and all bids; is aware that quantities furnished herein are estimates only; has not included any state or federal taxes for which the CRPC members are not liable; and is making this bid without collusion with any person, individual or corporation.

COMPANY

Hatton Ltd D/B/A Savol Pools

REPRESENTATIVE

Lynn Spaulding

POSITION

Office Manager

ADDRESS

91 Prestige Park Circle Unit 1

East Hartford, CT 06108

(ZIP)

06108

TELEPHONE #

860-282-0878

FAX #

860-291-8195

TAX ID #

06-1106973

E-MAIL ADDRESS

lspaulding@savolpools.com
GENERAL VENDOR INFORMATION

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Supplier: Savol COMPANY

COMPANY Hatton Ltd D/B/A Savol Pools

REPRESENTATIVE Lynn Spaulding

POSITION Office Manager

ADDRESS 91 Prestige Park Circle Unit 1
East Hartford, CT 06108

(ZIP) 06108

TELEPHONE # 860-282-0878

FAX # 860-291-8195

TAX ID # 06-1106973

E-MAIL ADDRESS lspaulding@savolpools.com

SIGNATURE kcamello

PAYMENT TERMS: 100% 30 Days

DATE: March 25, 2008
CAPITOL REGION PURCHASING COUNCIL
241 MAIN STREET, 4TH FLOOR
HARTFORD, CT 06106

Bid #684: Swimming Pool and Water Treatment Chemicals
Bid Specific Terms & Conditions

I. MODIFICATIONS TO GENERAL TERMS AND CONDITIONS

INTENT
The Capitol Region Purchasing Council (CRPC), on behalf of certain Capitol Region towns, boards of education, and agencies, requests bids for the procurement of Swimming Pool & Water Treatment Chemicals for the period commencing April 1, 2019 and ending March 31, 2020. Each respective CRPC member will make its own awards and payments according to the terms and conditions set forth in these specifications. A written order from each awarding CRPC member will be required before any deliveries commence.

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The applicable products of the bid proposal shall meet the referenced standards of the American Water Works Association (AWWA). If requested by any of the participating entities, the successful contractor(s) shall furnish written certification that the product(s) supplied meet the applicable AWWA standard(s).

NOTE: Copies of AWWA Standards may be obtained from:
American Water Works Association
6666 West Quincy Avenue
Denver, CO 80235
Telephone: (303) 794-7711
Fax: (303) 794-7310

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All contractors must supply, at no cost to the participating entities, Material Data Safety Sheets for any chemical, especially toxic or hazardous compounds.

TESTING
The participating entities reserve the right to have chlorine tested upon request for appropriate concentration levels at the site of delivery. The vendor shall bear the cost of all such tests and deliveries may be refused if concentration levels do not meet specifications.

SPILLAGE
Any spillage at the time of delivery will be the responsibility of the vendor and any costs to repair resultant damages or any penalties assessed against a member agency because of pollution resulting from such spillage shall be borne by the vendor.

SODIUM HYPOCHLORITE SOLUTION – For Disinfection – shall meet AWWA Standard B300 of current issue
Sodium Hypochlorite Solution as described is intended for use in water purification and shall be of High Concentration Industrial type. It shall be free from impurities which shall affect its proper usage and enhance its decomposition. It shall be a clear, greenish-yellowish liquid, free from sediment or suspended matter. It shall be miscible with cold distilled water. It shall be 12.5% or 15% chlorine by weight.
Sodium Hypochlorite Solution shall be packed in containers which comply with the regulations of the U.S. Department of Transportation for the transportation of explosive and other dangerous articles. Sodium Hypochlorite shall be delivered in five-gallon plastic carboys, 55 gallon drums or in bulk.

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**DIATOMITE FILTER MEDIUM**
Material of diatomite filter shall be Johns-Manville Celite #545 or equal. To be packed in 50 pound bags. (Diatomaceous Earth)

**ALGICIDE**
Algicide is to be liquid, 10% solution in one-gallon containers.

**PHENOL RED INDICATOR**
To be furnished in pint containers

**MURIATIC ACID – Shall meet ASTM Standards Specifications E1146 of current issue**
Bids are requested for 1 gallon and 15 gallon containers.

**SODIUM METABISULFITE SOLUTION 38% TO 40%**
Bids are requested for bulk purchases and 55 gallon drums.

**CYANURIC ACID (POOL CHLORINE STABILIZERS)**
To be furnished in pounds

**CALCIUM CHLORIDE – For scale and corrosion control – shall meet AWWA Standard B550 of current issue**
Granular or flaked – packed in 50 pound waterproof bags.

**SODIUM BICARBONATE – Shall meet ASTM Standard Specification D928 of current issue**
Packed in 50 pound bags.

**SUPER BLUE CRYSTAL CLEAR**
To be furnished in one-half gallon containers

**POTASSIUM PERMANGANATE – For taste and odor control – shall meet AWWA Standard B603 of current issue**
Free-flowing grade in 55 pound drums.

**SODIUM HYDROXIDE 50%/25% SOLUTION**
Bids are requested for 50% solution in 50 gallon drums and 25% in bulk.

**SODIUM THIO SULFATE**
100 pound bags

**POTASSIUM HYDROXIDE** – For scale and corrosion control – shall meet AWWA Standard B511 of current issue
45% caustic potash commercial grade to be furnished in 660 pound containers (55 gallon drums)

**PH PLUS**
50 pound pails

**PH MINUS**
50 pound pails

**CHLORINE NEUTRALIZER**
40 pound pail

**TEST KITS**
Per kit

**PULSAR PLUS BRIQUETTES CALCIUM HYPOCHLORITE, 65% ACTIVE**

**SODIUM PERMANGANATE**
Bids are requested for 50 gallon drums or 250 gallon totes.

**ZETAG 7587 DRY POLYMER**
Bids are requested for 56 pound bags.

**WINTER TABS (Chlorine tablets without cyanuric acid)**
Bids are requested in pounds

**NON-COPPER ALGICIDE**
Bids are requested in gallons.

**FRESH N KLEAR**
Monopersulfate with sodium carbonate, 25 pound buckets.

**SEA KLEAR**
Natural H₂O clarifier, twelve 1 quart bottles per case.

**GRANULAR CHLORINE**

**NON-TOXIC ANTIFREEZE**

**SODIUM BI-SULFITE (NaSO3) 38% SOLUTION**

**SODIUM HYPOCHLORITE (NaOCL) 15% SOLUTION**

**POLY ALUMINUM CHLORIDE (liquid) (PACL)**

**SODIUM PERMANGANATE (NaMnO4) SOLUTION**

**POLYMER STAFLOC 128**
POLYMER STAFLOC 128

POLY ALUMINUM CHLORIDE (liquid) (PACL)

SODIUM HYPOCHLORITE (NaOCl) 15% SOLUTION

SODIUM BICARBONATE

CALCIUM CHLORIDE

DIATOMITE FILTER MEDIUM

In 60 pound moisture proof bags (granular form).

SODIUM METABISULFITE SOLUTION 38% TO 40%

MURIATIC ACID

To be furnished in pint containers.

PHENOL RED INDICATOR

Algicide is to be liquid, 10% solution in one gallon carboys, twelve 1 quart bottles per case.

ALGICIDE (Diatomaceous Earth)

Material of diatomite filter shall be Johns Manville Celite #545 or equal. To be packed in 50 pound bags.

SODIUM BICARBONATE

CALCIUM CHLORIDE

CYANURIC ACID (POOL CHLORINE STABILIZERS)

Bids are requested for bulk purchases and 55 gallon drums.

SODIUM METABISULFITE SOLUTION 38% TO 40%

SODIUM HYDROXIDE 50%/25% SOLUTION

Free issue

POTASSIUM HYDROXIDE

100 pound bags

POTASSIUM HYDROXIDE

50 pound pails

SODIUM BICARBONATE

CALCIUM CHLORIDE

CYANURIC ACID (POOL CHLORINE STABILIZERS)

Bids are requested for bulk purchases and 55 gallon drums.

SODIUM METABISULFITE SOLUTION 38% TO 40%

MURIATIC ACID

To be furnished in pint containers.

PHENOL RED INDICATOR

Algicide is to be liquid, 10% solution in one gallon carboys, twelve 1 quart bottles per case.

ALGICIDE (Diatomaceous Earth)

Material of diatomite filter shall be Johns Manville Celite #545 or equal. To be packed in 50 pound bags.

SODIUM BICARBONATE

SODIUM METABISULFITE SOLUTION 38% TO 40%

MURIATIC ACID

To be furnished in pint containers.

PHENOL RED INDICATOR

Algicide is to be liquid, 10% solution in one gallon carboys, twelve 1 quart bottles per case.

ALGICIDE (Diatomaceous Earth)

Material of diatomite filter shall be Johns Manville Celite #545 or equal. To be packed in 50 pound bags.
**ADDENDUM #1 FOR INVITATION TO BID #684 COVERING SWIMMING POOL AND WATER TREATMENT CHEMICALS**

This addendum is posted to notify users and vendors that duplicate line items have been removed from the bid.

Please note that all other terms and conditions appearing in the original Invitation to Bid remain. Vendors are asked to sign, date, and return this sheet, along with their bids, in order to verify their receipt of this addendum prior to the specified submission deadline. Please fill out all sections below in order to ensure that your response is considered complete.

<table>
<thead>
<tr>
<th>Name</th>
<th>Lynn Spaulding</th>
</tr>
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<tbody>
<tr>
<td>Title</td>
<td>Office Manager</td>
</tr>
<tr>
<td>Company</td>
<td>Hatton ltd d/b/a Savol Pools</td>
</tr>
<tr>
<td>Address</td>
<td>91 Prestige Park Circle, Unit 1</td>
</tr>
<tr>
<td></td>
<td>East Hartford CT 06108</td>
</tr>
<tr>
<td>Telephone</td>
<td>860-282-0878</td>
</tr>
<tr>
<td>Signature</td>
<td>Lynn Spaulding</td>
</tr>
<tr>
<td>Date</td>
<td>3/27/2019</td>
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<td>Line Item</td>
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<td>Aluminum Sulfate Granular, 100 pound bags</td>
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<td>Soda Ash, 50 pound bags</td>
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<td>Diatomite Filer celite #545/Equivalent, 50 pound bags</td>
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<td>Algicide, 1 gallon container</td>
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<td>684-01-12</td>
<td>Phenol Red Indicator</td>
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<td>Muriatic Acid, 1 gallon containers</td>
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<td>Sodium Metabisulfite Solution 38% to 40%</td>
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<td>684--01.21</td>
<td>Potassium Permanganate</td>
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<td>684--01.23</td>
<td>Sodium Hydroxide, 25%</td>
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| 684--01-43 Poly Aluminum Chloride (Liquid) (PACL) | No Bids |
| 684--01-44 Polymer StaFloc 128                      | No Bids |
| 684--01-45 MicroC2000                               | No Bids |
Insurance Exhibit (West Hartford)

For the purpose of this exhibit: the term "Contractor" shall also include their respective agents, representatives, employees or subcontractors; and the term "Town of West Hartford and West Hartford Board of Education" (hereinafter called the "Town") shall include their respective officers, agents, officials, employees, volunteers, boards and commissions.

The Contractor shall procure and maintain the required insurance coverage against claims that may arise from, or in connection with the services and goods provided by the Contractor for the duration of the contract term, including any and all extensions. The Contractor shall provide the Town with a certificate of insurance confirming compliance with this exhibit prior to commencement of the contract. Such insurance shall be written for not less than specified, or required by applicable federal, state and/or municipal law, regulation or requirement, whichever is greater. The Contractor shall assume any and all premiums and deductibles in the described insurance policies. Both the Contractor and Contractor's insurer(s) agree to have no right of recovery or subrogation against the Town and the described insurance shall be primary coverage. Any failure to comply with the claim reporting provisions of the policy shall not affect coverage provided to the Town. Each required insurance policy shall not be suspended, voided, cancelled or reduced except after thirty (30) days prior written notice, ten (10) days notice for non-payment, has been given to the Town.

All liability policies (with the exception of Worker’s Compensation) shall include the Town of West Hartford, the West Hartford Board of Education, and their respective officers, agents, officials, employees, volunteers, boards and commissions as an Additional Insured and shall include, but not be limited to investigation, defense, settlement, judgment or payment of any legal liability. Failure to maintain the required insurance coverage and Additional Insured Endorsements shall be grounds for termination of the contract. It is agreed that the scope and limits of the insurance specified are minimum requirements and shall in no way limit or exclude the Town from additional limits or coverage provided under each policy. The policies shall be on the occurrence form and must be written by companies licensed to do business in the State of Connecticut. The Town’s Risk Manager shall review any and all exceptions.

Commercial General Liability: $1,000,000 combined single limit per occurrence for bodily injury, personal injury, property damage, contractual liability and products/completed operations. Contractor shall continue to provide products/completed operations coverage for two (2) years after completion of the work.

Automobile Liability and Physical Damage Coverage: $1,000,000 combined single limit per occurrence for any auto, including statutory uninsured/underinsured motorists coverage and $1,000 medical payments. Policy to include collision and comprehensive coverage for any auto used for the purpose of this contract.

Umbrella Liability: $1,000,000 per occurrence, $2,000,000 aggregate following form.

Workers’ Compensation: Statutory limits including Employer’s Liability with limits of $100,000 each accident, $500,000 for each disease/policy limit, and $100,000 for disease for each employee as required by the State of Connecticut. If the Contractor decides not to procure workers’ compensation in accordance with Connecticut law, the Contractor agrees to comply with the Connecticut Workers’ Compensation Act’s (Act) requirements for withdrawing from the provisions of the Act, including, but not limited to, filing the appropriate notice of withdrawal with the commissioner. The Contractor is wholly responsible for taking the actions necessary to withdraw from the provisions of the Act. In lieu of procuring workers’ compensation insurance and providing the Town with proof thereof, the Contractor agrees to hold the Town of West Hartford, the West Hartford Board of Education, their respective boards and commissions, officers, agents, officials, employees, servants, volunteers, contractors and representatives harmless from any and all suits, claims, and actions arising from personal injuries sustained by him during the course of the performance of this contract, however caused.

Personal Property for "all risk" insurance on a replacement cost basis to cover the value of personal property belonging to the Contractor and others (including but not limited to the personal property of subcontractors) located on Town property while in use or in storage for the duration of the contract. Deductible not to exceed $1,000.

Cindy LeMieux
Duly Authorized

3/26/19

Date

Cindy LeMieux
(Print Name Here)
while in use or in storage for the duration of the contract. Deductible not to exceed $1,000.

the Contractor and others (including but not limited to the personal property of subcontractors) located on Town property

Personal Property

from personal injuries sustained by him during the course of the performance of this contract, however caused.

employees, servants, volunteers, contractors and representatives harmless from any and all suits, claims, and actions arising

Hartford, the West Hartford Board of Education, their respective boards and commissions, officers, agents, officials,

Act, including, but not limited to, filing the appropriate notice of withdrawal with the commissioner.

comply with the Connecticut Workers

Contractor decides not to procure workers

for each disease/policy limit, and $100,000 for disease for each employee as required by the State of Connecticut.

Workers

Umbrella Liability:

and comprehensive coverage for any auto used for the purpose of this contract.

Automobile Liability and Physical Damage Coverage:

including statutory uninsured/underinsured motorists coverage and $1,000 medical payments.

Commercial General Liability:

The policies shall be on the occurrence form and must be written by companies licensed to do business in

the State of Connecticut.

minimum requirements and shall in no way limit or exclude the Town from additional limits or coverage provided under

shall be grounds for termination of the contract.

or payment of any legal liability

comercial Risk Manager shall review any and all exceptions.

All liability policies (with the exception of Worker

s Compensation) shall include the Town of West Hartford, the West Hartford Board of Education, and their respective officers, agents, officials, employees, volunteers, boards and commissions as an Additional Insured

primary coverage.

insurer(s) agree to have no right of recovery or subrogation against the Town and the described insurance shall be

assume any and all premiums and deductibles in the described insurance policies.

applicable federal, state and/or municipal law, regulation or requirement, whichever is greater.

exhibit prior to commencement of the contract.

The Contractor shall procure and maintain the required insurance coverage against claims that may arise from, or in connection with the services and goods provided by the Contractor for the duration of the contract term, including any

The Contractor shall provide the Town with a certificate of insurance confirming compliance with this

primary coverage.

Failure to maintain the required insurance coverage and Additional Insured Endorsements

Any failure to comply with the claim reporting provisions of the policy shall not affect coverage

provisions of the Act, including, but not limited to, filing the appropriate notice of withdrawal with the commissioner.

§ 38-1-31. For the purpose of this exhibit: the term

"Contractor" shall also include their respective agents, representatives, employees

"Town") shall include their respective officers, agents, officials, employees, volunteers, boards and commissions.

For the purpose of this exhibit: the term

Cindy LeMieux

Duly Authorized

Date

Cindy LeMieux
Supplier: **H. Krevit & Co., Inc.**

**GENERAL VENDOR INFORMATION**

VENDORS ARE ASKED TO FILL OUT THIS FORM SO THAT THEIR BID RESPONSES ARE CONSIDERED COMPLETE.

The undersigned: is aware that any CRPC member may reject any and all bids, or any part of any and all bids; is aware that quantities furnished herein are estimates only; has not included any state or federal taxes for which the CRPC members are not liable; and is making this bid without collusion with any person, individual or corporation.

**COMPANY**

New Haven Chlor-Alkali LLC

**REPRESENTATIVE**

Cindy LeMieux

**POSITION**

Sales Admin. & Bid Coordinator

**ADDRESS**

P.O. Box 9433

New Haven, CT

**ZIP**

06534

**TELEPHONE #**

2037723350

**FAX #**

2037760730

**TAX ID #**

811692051

**E-MAIL ADDRESS**

c_lemieux@hkrevit.com

**DATE:**

3/26/19
### GENERAL VENDOR INFORMATION

VENDORS ARE ASKED TO FILL OUT THIS FORM SO THAT THEIR BID RESPONSES ARE CONSIDERED COMPLETE.

The undersigned: is aware that any CRPC member may reject any and all bids, or any part of any and all bids; is aware that quantities furnished herein are estimates only; has not included any state or federal taxes for which the CRPC members are not liable; and is making this bid without collusion with any person, individual or corporation.

<table>
<thead>
<tr>
<th>Supplier</th>
<th>H. Krevit &amp; Co., Inc.</th>
</tr>
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<tbody>
<tr>
<td>COMPANY</td>
<td>New Haven Chlor-Alkali LLC</td>
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<tr>
<td>REPRESENTATIVE</td>
<td>Cindy LeMieux</td>
</tr>
<tr>
<td>POSITION</td>
<td>Sales Admin. &amp; Bid Coordinator</td>
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<tr>
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<td><a href="mailto:c_lemieux@hkrevit.com">c_lemieux@hkrevit.com</a></td>
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<td>PAYMENT TERMS</td>
<td>1% 10 Days</td>
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<td>3/26/19</td>
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*Capitol Region Council of Governments*  
*BidSync*  
*p. 144*
I. MODIFICATIONS TO GENERAL TERMS AND CONDITIONS

INTENT
The Capitol Region Purchasing Council (CRPC), on behalf of certain Capitol Region towns, boards of education, and agencies, requests bids for the procurement of Swimming Pool & Water Treatment Chemicals for the period commencing April 1, 2019 and ending March 31, 2020. Each respective CRPC member will make its own awards and payments according to the terms and conditions set forth in these specifications. A written order from each awarding CRPC member will be required before any deliveries commence.

PRODUCT SPECIFICATIONS
The applicable products of the bid proposal shall meet the referenced standards of the American Water Works Association (AWWA). If requested by any of the participating entities, the successful contractor(s) shall furnish written certification that the product(s) supplied meet the applicable AWWA standard(s).

NOTE: Copies of AWWA Standards may be obtained from:
American Water Works Association
6666 West Quincy Avenue
Denver, CO 80235
Telephone: (303) 794-7711
Fax: (303) 794-7310

SAFETY SHEET REQUIREMENT
All contractors must supply, at no cost to the participating entities, Material Data Safety Sheets for any chemical, especially toxic or hazardous compounds.

TESTING
The participating entities reserve the right to have chlorine tested upon request for appropriate concentration levels at the site of delivery. The vendor shall bear the cost of all such tests and deliveries may be refused if concentration levels do not meet specifications.

SPILLAGE
Any spillage at the time of delivery will be the responsibility of the vendor and any costs to repair resultant damages or any penalties assessed against a member agency because of pollution resulting from such spillage shall be borne by the vendor.

SODIUM HYPOCHLORITE SOLUTION – For Disinfection – shall meet AWWA Standard B300 of current issue
Sodium Hypochlorite Solution as described is intended for use in water purification and shall be of High Concentration Industrial type. It shall be free from impurities which shall affect its proper usage and enhance its decomposition. It shall be a clear, greenish-yellowish liquid, free from sediment or suspended matter. It shall be miscible with cold distilled water. It shall be 12.5% or 15% chlorine by weight.
Sodium Hypochlorite Solution shall be packed in containers which comply with the regulations of the U.S. Department of Transportation for the transportation of explosive and other dangerous articles. Sodium Hypochlorite shall be delivered in five-gallon plastic carboys, 55 gallon drums or in bulk.

**CALCIUM HYPOCHLORITE – For Disinfection – shall meet AWWA Standard B300 of current issue**
Calciun Hypochlorite is intended for water treatment purposes and to have 70% available chlorine, by weight HTH, Hi-test, Perchloron or equivalent. It is to be furnished in granular form as specified. 100 pound drums.

**ALUMINIUM SULFATE – For Coagulation – shall meet AWWA Standard B403 of current issue**
Alumnum Sulfate (alum) shall be for water treatment purposes. It is to be furnished in 100 pound, moisture-proof bags (granular form).

**SODA ASH – For Softening – shall meet AWWA Standard B201 of current issue**
Soda Ash (Sodium Carbonate) technical grade over 50% light ash; over 95% Na₂CO₃. It is to be furnished in 60 pound moisture-proof bags and in bulk.

**DIATOMITE FILTER MEDIUM**
Material of diatomite filter shall be Johns-Manville Celite #545 or equal. To be packed in 50 pound bags. (Diatomaceous Earth)

**ALGICIDE**
Algicide is to be liquid, 10% solution in one-gallon containers.

**PHENOL RED INDICATOR**
To be furnished in pint containers

**MURIATIC ACID – Shall meet ASTM Standards Specifications E1146 of current issue**
Bids are requested for 1 gallon and 15 gallon containers.

**SODIUM METABISULFITE SOLUTION 38% TO 40%**
Bids are requested for bulk purchases and 55 gallon drums.

**CYANURIC ACID (POOL CHLORINE STABILIZERS)**
To be furnished in pounds

**CALCIUM CHLORIDE – For scale and corrosion control – shall meet AWWA Standard B550 of current issue**
Granular or flaked – packed in 50 pound waterproof bags.

**SODIUM BICARBONATE – Shall meet ASTM Standard Specification D928 of current issue**
Packed in 50 pound bags.

**SUPER BLUE CRYSTAL CLEAR**
To be furnished in one-half gallon containers

**POTASSIUM PERMANGANATE – For taste and odor control – shall meet AWWA Standard B603 of current issue**
Free-flowing grade in 55 pound drums.

**SODIUM HYDROXIDE 50%/25% SOLUTION**
Bids are requested for 50% solution in 50 gallon drums and 25% in bulk.

**SODIUM THIO SULFATE**
100 pound bags

POTASSIUM HYDROXIDE – For scale and corrosion control – shall meet AWWA Standard B511 of current issue
45% caustic potash commercial grade to be furnished in 660 pound containers (55 gallon drums)

PH PLUS
50 pound pails

PH MINUS
50 pound pails

CHLORINE NEUTRALIZER
40 pound pail

TEST KITS
Per kit

PULSAR PLUS BRIQUETTES CALCIUM HYPOCHLORITE, 65% ACTIVE

SODIUM PERMANGANATE
Bids are requested for 50 gallon drums or 250 gallon totes.

ZETAG 7587 DRY POLYMER
Bids are requested for 56 pound bags.

WINTER TABS (Chlorine tablets without cyanuric acid)
Bids are requested in pounds

NON-COPPER ALGICIDE
Bids are requested in gallons.

FRESH N KLEAR
Monopersulfate with sodium carbonate, 25 pound buckets.

SEA KLEAR
Natural H₂O clarifier, twelve 1 quart bottles per case.

GRANULAR CHLORINE

NON-TOXIC ANTIFREEZE

SODIUM BI-SULFITE (NaSO₃) 38% SOLUTION

SODIUM HYPOCHLORITE (NaOCl) 15% SOLUTION

POLY ALUMINUM CHLORIDE (liquid) (PACL)

SODIUM PERMANGANATE (NaMnO₄) SOLUTION

POLYMER STAFLOC 128
Bids are requested for 50 gallon drums or 250 gallon totes.

**SODIUM METABISULFITE SOLUTION 38% TO 40%**
Bids are requested for 1 gallon and 15 gallon containers.

**MURIATIC ACID**
For appropriate

**PHENOL RED INDICATOR**
Algicide is to be liquid, 10% solution in one

**50 pound pails**

**45% caustic potash commercial grade to be furnished in 660 pound containers (55 gallon drums)**

**SODIUM HYDROXIDE 50%/25% SOLUTION**
Free

**POTASSIUM PERMANGANATE**
To be furnished in one

**SUPER BLUE CRYSTAL CLEAR**
Packed in 50 pound bags.

**CALCIUM CHLORIDE**
To be furnished in pounds

**CYANURIC ACID (POOL CHLORINE STABILIZERS**
Bids are requested for bulk purchases and 55 gallon drums.

**SODIUM THIO SULFATE**
Bids are requested for 50% solution in 50 gallon drums and 25% in bulk.

**SODIUM HYDROXIDE**

**Free**

**SODA ASH**
Soda Ash (Sodium Carbonate) technical grade over 50% light ash; over 95% Na

**Aluminium Sulfate (alum)** shall be for water treatment purposes. It is to be furnished in 100 pound, pound drums.

**Calcium Hypochlorite** is intended for water treatment purposes and to have 70% available chlorine, by

**Calcium Hypochlorite**
Sodium Hypochlorite shall be delivered in five

**SODIUM HYPOCHLORITE (NaOCL) 15% SOLUTION**
Bids are requested for bulk purchases and 55 gallon drums.

**SODIUM BI NON**

**FRESH N KLEAR**
Bids are requested in gallons.

**ZETAG 7587 DRY POLYMER**
Bids are requested for 56 pound bags.

**40 pound pail**

**CHLORINE NEUTRALIZER**

**PH MINUS**

**TEST KITS**

**45% caustic potash commercial grade to be furnished in 660 pound containers (55 gallon drums)**

**SODIUM THIO SULFATE**
Bids are requested for 50% solution in 50 gallon drums and 25% in bulk.

**SODIUM HYDROXIDE 50%/25% SOLUTION**
Free

**POTASSIUM PERMANGANATE**
To be furnished in one

**SUPER BLUE CRYSTAL CLEAR**
Packed in 50 pound bags.

**CALCIUM CHLORIDE**
To be furnished in pounds

**CYANURIC ACID (POOL CHLORINE STABILIZERS**
Bids are requested for bulk purchases and 55 gallon drums.

**SODIUM METABISULFITE SOLUTION 38% TO 40%**
Bids are requested for 1 gallon and 15 gallon containers.

**MURIATIC ACID**
For appropriate

**PHENOL RED INDICATOR**
Algicide is to be liquid, 10% solution in one

**50 pound pails**

**45% caustic potash commercial grade to be furnished in 660 pound containers (55 gallon drums)**

**SODIUM HYDROXIDE 50%/25% SOLUTION**
Free

**POTASSIUM PERMANGANATE**
To be furnished in one

**SUPER BLUE CRYSTAL CLEAR**
Packed in 50 pound bags.

**CALCIUM CHLORIDE**
To be furnished in pounds

**CYANURIC ACID (POOL CHLORINE STABILIZERS**
Bids are requested for bulk purchases and 55 gallon drums.

**SODIUM THIO SULFATE**
Bids are requested for 50% solution in 50 gallon drums and 25% in bulk.

**SODIUM HYDROXIDE 50%/25% SOLUTION**
Free

**POTASSIUM PERMANGANATE**
To be furnished in one

**SUPER BLUE CRYSTAL CLEAR**
Packed in 50 pound bags.

**CALCIUM CHLORIDE**
To be furnished in pounds

**CYANURIC ACID (POOL CHLORINE STABILIZERS**
Bids are requested for bulk purchases and 55 gallon drums.

**SODIUM METABISULFITE SOLUTION 38% TO 40%**
Bids are requested for 1 gallon and 15 gallon containers.

**MURIATIC ACID**
For appropriate
ADDENDUM #1 FOR INVITATION TO BID #684 COVERING SWIMMING POOL AND WATER TREATMENT CHEMICALS

This addendum is posted to notify users and vendors that duplicate line items have been removed from the bid.

Please note that all other terms and conditions appearing in the original Invitation to Bid remain. Vendors are asked to sign, date, and return this sheet, along with their bids, in order to verify their receipt of this addendum prior to the specified submission deadline. Please fill out all sections below in order to ensure that your response is considered complete.

Name: Cindy LeMieux
Title: Sales Admin. & Bid Coordinator
Company: New Haven Chlor-Alkali LLC
Address: PO Box 9433, 73 Welton St.
New Haven CT 06534
(City) (State) (Zip)
Telephone: 2037723350
Signature: Sodhypo21
Date: 3/26/19
<table>
<thead>
<tr>
<th>Item #</th>
<th>Line Item</th>
<th>Notes</th>
<th>Unit Price</th>
<th>Qty/Unit</th>
<th>Attch. Docs</th>
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<td>684--01-01</td>
<td>Sodium Hypochlorite</td>
<td>12.5% available chlorine, 5 gallon carboys</td>
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<td>1 / gallon</td>
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<td>684--01-11</td>
<td>Algicide, 1 gallon container</td>
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<td>684--01-12</td>
<td>Phenol Red Indicator</td>
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<td>684--01-13</td>
<td>Muriatic Acid, 1 gallon containers</td>
<td>No Bids</td>
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<td>Sodium Metabisulfite Solution 38% to 40%</td>
<td>No Bids</td>
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<td>684--01-16</td>
<td>Cyanuric Acid</td>
<td>No Bids</td>
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<td>Item</td>
<td>Product Description</td>
<td>Supplier</td>
<td>First Offer</td>
<td>Unit Price</td>
<td>Qty/Unit</td>
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<td>Calcium Chloride, flaked</td>
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<td>684-01-19</td>
<td>Sodium Bicarbonate</td>
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<td>684-01-20</td>
<td>Superblue Crystal Clear</td>
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<tr>
<td>684-01-21</td>
<td>Potassium Permanganate</td>
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<td>684-01-22</td>
<td>Sodium Hydroxide, 50% solution</td>
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<td>684-01-23</td>
<td>Sodium Hydroxide, 25%</td>
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<tr>
<td>684-01-24</td>
<td>Sodium Thio Sulfate</td>
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<tr>
<td>684-01-25</td>
<td>Potassium Hydroxide 45%</td>
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<tr>
<td>684-01-26</td>
<td>PH Plus</td>
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<td>684-01-27</td>
<td>PH Minus</td>
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<tr>
<td>684-01-28</td>
<td>Chlorine Neutralizer</td>
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<tr>
<td>684-01-29</td>
<td>Test Kits</td>
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<td>684-01-30</td>
<td>Pulsar Plus Briquette Calcium Hypochlorite, 65% active</td>
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<td>684-01-31</td>
<td>Sodium Permanganate</td>
<td>Supplier Code:</td>
<td>First Offer: $7.6616</td>
<td>Unit Price: $7.6616</td>
<td>Qty/Unit: Y</td>
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<td>Zetag 7587 Dry Polymer</td>
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<tr>
<td>684-01-33</td>
<td>Winter Tabs</td>
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<tr>
<td>684-01-34</td>
<td>Non-Copper Algicide</td>
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<tr>
<td>684-01-35</td>
<td>Fresh N Klear</td>
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<tr>
<td>684-01-36</td>
<td>Sea Klear</td>
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<tr>
<td>684-01-37</td>
<td>Granular Chlorine</td>
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<tr>
<td>684-01-38</td>
<td>Non-toxic Antifreeze</td>
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<tr>
<td>684-01-39</td>
<td>Container Deposit: Potassium Hydroxide 660 lb. drum</td>
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<tr>
<td>684-01-40</td>
<td>Container Deposit: Plastic Carboys</td>
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<td>684-01-41</td>
<td>Sodium Bi-Sulfite (NaSO3) 38% solution</td>
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<td>684-01-42</td>
<td>Sodium Hypochlorite (NaOCL) 15% solution</td>
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<td>684-01-43</td>
<td>Poly Aluminum Chloride (Liquid) (PACL)</td>
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<tr>
<td>684-01-44</td>
<td>Polymer StaFloc 128</td>
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No Bids
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<tr>
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<th>Product</th>
<th>Notes</th>
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<tr>
<td>684-01-45</td>
<td>MicroC2000</td>
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<td>$7.6616</td>
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<th>Carus Corporation</th>
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<tr>
<td><strong>Item:</strong> Sodium Permanganate</td>
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<table>
<thead>
<tr>
<th>Attachments</th>
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</thead>
<tbody>
<tr>
<td>CARUSOL LIT CRCOG.pdf</td>
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</tbody>
</table>
CARUSOL® liquid permanganate is an effective oxidant recommended for potable drinking water applications that require a concentrated permanganate solution. Applications include iron and manganese reduction, taste and odor control, disinfection by-product reduction, color reduction, and radium reduction.

### PRODUCT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Assay</th>
<th>19.5 - 21.5% as NaMnO₄</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>5.0 - 8.0</td>
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<tr>
<td>Solubility in Water</td>
<td>Miscible with water in all proportions</td>
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</tbody>
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**Standards and Specifications**

- CARUSOL meets: AWWA Standard B603-10
- EN: 15482 - 10 mg/L max
- ANSI/NSF 60
- KIWA- Product certification no. K83927 - 17 mg/L max
- NSF Maximum Use Level 176 mg/L

**CHEMICAL/PHYSICAL DATA**

<table>
<thead>
<tr>
<th>Formula</th>
<th>NaMnO₄</th>
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</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Dark Purple Solution</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.15 - 1.17</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>21° F (-6° C)</td>
</tr>
</tbody>
</table>

Applications:
- Drinking Water Purification
- Iron/Manganese Oxidation
- Taste and Odor Control
- Preoxidant for THM and HAA Control
- Hydrogen Sulfide Control
- Radium Removal
- Color Removal

**BENEFITS**

- Concentrated liquid oxidant
- More precise dosing of chemical
- Feed equipment is simplified
- Consistent concentration

**SHIPPING CONTAINERS**

- **5-gallon (20-L) Jerrican**
  - UN Specification: UN3H1/Y1.8/100
  - Made of high density polyethylene (HDPE)
  - Weights 3.3 lb (1.5 kg)
  - The net weight is 48.5 lb (22 kg)
  - The jerrican stands approximately 13.4 in. tall, 9.4 in. wide, and 13.0 in. deep (33.9 cm high, 23.8 cm wide, and 33.0 cm deep).

- **55-gallon (208.2L) Closed Head HDPE Drum**
  - UN Specifications: UN1H1/Y1.9/100
  - Made of high density polyethylene (HDPE)
  - Weighs 20.5 lb (9.3 kg)
  - The net weight is 533.5 lb (241.9 kg)
  - The drum stands approximately 35.1 in. tall and has an outside diameter of 23.4 in. (89.1 cm tall, OD 59.4 cm).

- **275-gallon (1041 L) IBC (Intermediate Bulk Container)**
  - UN Specification: UN31HA1/Y1.9/100
  - They are also marked “MX” for multi-trip IBC
  - Weighs 123 lb (55.8 kg)
  - The net weight is 2550 lb (1160 kg)
  - The IBC contains 263 gallons of product
  - The IBC dimensions are 45.3 in. (114.9 cm) high, 47.3 in. (120.0 cm) long, and 39.4 in. (100.0 cm) wide
  - The IBC has a 2 in. butterfly valve with NPT threads in bottom sump

Bulk Shipping: Quantities from 3000-4200 gallons are available.

**HANDLING, STORAGE, AND INCOMPATIBILITY**

Like any strong oxidant, CARUSOL liquid permanganate should be handled with care. Protective equipment during handling should include face shields and/or goggles, rubber or plastic gloves, and rubber or plastic apron. If clothing becomes spotted, wash off immediately; spontaneous ignition can occur with cloth or paper.

In cases where significant exposure exists, use of the appropriate NIOSH-MSHA dust or mist respirator is recommended.

Store in accordance with NFPA (National Fire Protection Association) Code 430 requirements for Class II Oxidizers. The product should be stored in a cool, dry area in closed containers. Concrete floors are preferred. Avoid wooden decks. Spillage should be collected and disposed of properly. Contain and dilute spillage to approximately 6% with water, and then reduce with sodium thiosulfate, a bisulfite, or ferrous salt solution. The bisulfite or ferrous salt may require some dilute sulfuric acid (10% w/w) to promote reduction. Neutralize with sodium carbonate to neutral pH, if acid was used. Deposit sludge in an approved landfill or, where permitted, drain into sewer with large quantities of water.

The information contained herein is accurate to the best of our knowledge. However, data, safety standards and government regulations are subject to change; and the conditions of handling, use or misuse of the product are beyond our control. Carus Corporation makes no warranty, either expressed or implied, including any warranties of merchantability and fitness for a particular purpose. Carus also disclaims all liability for reliance on the completeness or confirming accuracy of any information included herein. Users should satisfy themselves that they are aware of all current data relevant to their particular use(s).

Carus and Design is a registered service mark of Carus Corporation. CARUSOL is a registered trademark of Carus Corporation. ResponsibleCare® is a registered service mark of the American Chemistry Council.
As an oxidant, the product itself is non-combustible, but will accelerate the burning of combustible materials. Therefore, contact with all combustible materials and/or chemicals must be avoided. These include but are not limited to: wood, cloth, organic chemicals, and charcoal. Avoid contact with acids, peroxides, sulfites, oxalates, and all other oxidizable inorganic chemicals. During contact with hydrochloric acid, chlorine is liberated. Consult the SDS for additional safety information.

**SHIPPING**

CARUSOL® liquid permanganate is classified and listed as an oxidizer by PHMSA (Pipeline and Hazardous Materials Safety Administration, Department of Transportation, in 49 CFR Subchapter C, HMR (Hazardous Materials Regulation), Part 172.101 HMT (Hazardous Materials Table).

**Proper Shipping Name:** Permanganates, inorganics, aqueous solution n.o.s. (Contains sodium permanganate).

**Hazard Class:** 5.1

**Identification Number:** UN 3214

**COMPATIBILITY INFORMATION**

CARUSOL liquid permanganate is compatible with many metals and synthetic materials. Natural rubbers and fibers are often incompatible. Solution pH and temperature are also important factors. The material selected for use with liquid permanganate must also be compatible with any kind of acid or alkali being used.

In neutral and alkaline solutions, sodium permanganate is not corrosive to carbon steel and 316 stainless steel; however, chloride corrosion of metals may be accelerated when an oxidant such as liquid permanganate is present in solution. Plastics such as Teflon, polypropylene, and HDPE are also compatible with liquid permanganate.

Aluminum, zinc, copper, lead, and alloys containing these metals may be (slightly) affected by sodium permanganate solutions. Actual corrosion or compatibility studies should be made under the conditions in which permanganate will be used prior to use.

Carus Corporation has technical assistance available to answer questions, evaluate treatment alternatives, and perform laboratory testing. Our laboratory capabilities include: consulting, treatability studies, feasibility studies, and analytical services.

**FIELD SERVICES**

As an integral part of our technical support, Carus provides extensive on-site treatment assistance. We offer full application services, including technical expertise, supervision, testing, and feed equipment design and installation in order to accomplish a successful evaluation and/or application.

**ENGINEERED SYSTEMS AND EQUIPMENT SERVICES**

Various options and accessories are available to meet a wide range of applications. Custom-engineered feed systems are complete, pre-engineered and prepackaged systems. System designs are customized to meet specific applications and customer needs. CARUSOL liquid permanganate eliminates the need to prepare solutions from dry powder and can be fed with simple dosing pumps.

During its 100-year history, Carus’ ongoing emphasis on research and development, technical support, and customer service has enabled the company to become the world leader in permanganate, manganese, oxidation, and base-metal catalyst technologies.

The information contained herein is accurate to the best of our knowledge. However, data, safety standards and government regulations are subject to change, and the conditions of handling, use or misuse of the product are beyond our control. Carus Corporation makes no warranty, either expressed or implied, including any warranties of merchantability and fitness for a particular purpose. Carus also disclaims all liability for reliance on the completeness or confirming accuracy of any information included herein. Users should satisfy themselves that they are aware of all current data relevant to their particular use(s).

Carus and Design is a registered service mark of Carus Corporation. CARUSOL is a registered trademark of Carus Corporation. Responsible Care® is a registered service mark of the American Chemistry Council.
The Public Health and Safety Organization

**NSF Product and Service Listings**

These NSF Official Listings are current as of **Tuesday, March 26, 2019** at 12:15 a.m. Eastern Time. Please contact NSF to confirm the status of any Listing, report errors, or make suggestions.

Alert: NSF is concerned about fraudulent downloading and manipulation of website text. Always confirm this information by clicking on the below link for the most accurate information:

http://info.nsf.org/Certified/PwsChemicals/Listings.asp?CompanyName=CARUS&TradeName=CARUSOL&

---

**NSF/ANSI 60**

**Drinking Water Treatment Chemicals - Health Effects**

---

Carus Corporation
315 Fifth Street
P.O. Box 599
Peru, IL 61354-0599
United States
800-435-6856
815-223-1500

**Facility:** # 1 La Salle, IL

<table>
<thead>
<tr>
<th>Trade Designation</th>
<th>Product Function</th>
<th>Max Use</th>
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<tbody>
<tr>
<td>CARUSOL®</td>
<td>Oxidant</td>
<td>176mg/L</td>
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<tr>
<td>CARUSOL® C</td>
<td>Oxidant</td>
<td>88mg/L</td>
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<tr>
<td>CARUSOL®-20</td>
<td>Oxidant</td>
<td>176mg/L</td>
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<tr>
<td>CARUSOL®-40</td>
<td>Oxidant</td>
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[6] The finished drinking water should be monitored to ensure that levels of manganese do not exceed 0.05 mg/L.

[PO] The finished drinking water shall be monitored to ensure that levels of manganese do not exceed 0.05 mg/L.
Number of matching Manufacturers is 1
Number of matching Products is 4
Processing time was 0 seconds
1. Identification

Product identifier: CARUSOL® liquid permanganate

Other means of identification:

- SDS number: -

Recommended use: Waste water treatment. Industrial use. Water treatment. CARUSOL® liquid permanganate is an effective oxidant recommended for potable drinking water and wastewater applications that require a concentrated permanganate solution.

Recommended restrictions: Use in accordance with supplier's recommendations.

Manufacturer/Importer/Supplier/Distributor information

- Company name: CARUS CORPORATION
- Address: 315 Fifth Street, Peru, IL 61354, USA
- Telephone: +1 815 223-1500 - All other non-emergency inquiries about the product should be directed to the company
- E-mail: salesmkt@caruscorporation.com
- Website: www.caruscorporation.com
- Contact person: Shelley Corban

Emergency Telephone

For Hazardous Materials [or Dangerous Goods] Incidents ONLY (spill, leak, fire, exposure or accident), call CHEMTREC at

CHEMTREC®, USA: 001 (800) 424-9300
CHEMTREC®, Mexico (Toll-Free - must be dialed from within country): 01-800-681-9531
CHEMTREC®, Other countries: 001 (703) 527-3887

2. Hazard(s) identification

Physical hazards: Oxidizing liquids Category 2

Health hazards:
- Acute toxicity, oral Category 4
- Skin corrosion/irritation Category 1B
- Serious eye damage/eye irritation Category 1
- Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Environmental hazards:
- Hazardous to the aquatic environment, acute hazard Category 1
- Hazardous to the aquatic environment, long-term hazard Category 1

OSHA defined hazards: Not classified.

Label elements

Signal word: Danger

Hazard statement: May intensify fire; oxidizer. Harmful if swallowed. Causes severe skin burns and eye damage. May cause respiratory irritation. Very toxic to aquatic life with long lasting effects.

Precautionary statement:

Prevention: Keep away from heat. Take any precaution to avoid mixing with combustibles. Keep/Store away from clothing/combustible materials. Use only outdoors or in a well-ventilated area. Do not breathe mist or vapor. Wear protective gloves/protective clothing/eye protection/face protection. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment.
Response
In case of fire: Use water for extinction. If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center/doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If inhaled: Remove person to fresh air and keep comfortable for breathing. Collect spillage.

Storage
Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations. Rinse container at least three times to an absence of pink color before disposing.

Hazard(s) not otherwise classified (HNOC)
None known.

Supplemental information
None.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium permanganate</td>
<td>10101-50-5</td>
<td>19-21</td>
</tr>
</tbody>
</table>

Composition comments
All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Get medical attention immediately.

Skin contact
Take off immediately all contaminated clothing. (Caution: Solution may ignite certain textiles). Immediately flush skin with plenty of water. Get medical attention immediately. Wash contaminated clothing before reuse.

Eye contact
Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids wide apart. Continue rinsing. Get medical attention immediately.

Ingestion
Immediately rinse mouth and drink plenty of water. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention immediately.

Most important symptoms/effects, acute and delayed
Contact with this material will cause burns to the skin, eyes and mucous membranes. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special treatment needed
Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Decomposition products are alkaline. Brown stain is insoluble manganese dioxide.

General information
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media
Flood with water from a distance, water spray or fog.

Unsuitable extinguishing media
The following extinguishing media are ineffective: Dry chemical. Foam. Carbon dioxide (CO2). Halogenated materials.

Specific hazards arising from the chemical
May intensify fire; oxidizer. May ignite combustibles (wood, paper, oil, clothing, etc.). Contact with incompatible materials or heat (135 °C / 275 °F) could result in violent exothermic chemical reaction. Oxidizing agent, may cause spontaneous ignition of combustible materials. By heating and fire, corrosive vapors/gases may be formed.

Special protective equipment and precautions for firefighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Fire fighting equipment/instructions
Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Dike fire control water for later disposal. Water runoff can cause environmental damage.
The product is not flammable. May intensify fire; oxidizer. May ignite combustibles (wood, paper, oil, clothing, etc.). Contact with incompatible materials or heat (135 °C / 275 °F) could result in violent exothermic chemical reaction.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Keep unnecessary personnel away. Keep upwind. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up
Keep combustibles (wood, paper, oil, etc.) away from spilled material. Should not be released into the environment. This product is miscible in water. Stop leak if possible without any risk. Dike the spilled material, where this is possible. Proceed with either of the following two options depending upon the size of the spill and the availability of the neutralizing agents:

Option # 1: Dilute to approximately 6% with water, and then reduce with sodium thiosulfate, a bisulfite or ferrous salt solution. The bisulfite or ferrous salt may require some dilute sulfuric acid (10% w/w) to promote reduction. Neutralize with sodium carbonate to neutral pH, if acid was used. Decant or filter and deposit sludge in approved landfill. Where permitted, the sludge may be drained into sewer with large quantities of water.

Option # 2: Absorb with inert media like diatomaceous earth or inert floor dry, collect into a drum and dispose of properly. Do not use saw dust or other incompatible media. Disposal of all materials shall be in full and strict compliance with all federal, state, and local regulations pertaining to permanganes.

To clean contaminated floors, flush with abundant quantities of water into sewer, if permitted by federal, state, and local regulations. If not, collect water and treat as described above.

Personal precautions, protective equipment and emergency procedures
Never return spills in original containers for re-use. For waste disposal, see Section 13 of the SDS.

Environmental precautions
Do not allow to enter drains, sewers or watercourses. Contact local authorities in case of spillage to drain/aquatic environment.

7. Handling and storage

Precautions for safe handling
Take any precaution to avoid mixing with combustibles. Keep away from clothing and other combustible materials. Do not get this material in your eyes, on your skin, or on your clothing. Do not breathe mist or vapor. Use Personal Protective Equipment recommended in section 8 of the SDS. If clothing becomes contaminated, remove and wash off immediately. Spontaneous ignition may occur in contact with cloth or paper. When using, do not eat, drink or smoke. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Avoid release to the environment.

Conditions for safe storage, including any incompatibilities
Store locked up. Keep container tightly closed and in a well-ventilated place. Store in a cool, dry place. Store away from incompatible materials (See Section 10). Store in accordance with NFPA 430 requirements for Class II oxidizers.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium permanganate (CAS 10101-50-5)</td>
<td>Ceiling</td>
<td>5 mg/m3</td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium permanganate (CAS 10101-50-5)</td>
<td>TWA</td>
<td>0.1 mg/m3</td>
<td>Inhalable fraction.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.02 mg/m3</td>
<td>Respirable fraction.</td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium permanganate (CAS 10101-50-5)</td>
<td>STEL</td>
<td>3 mg/m3</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1 mg/m3</td>
</tr>
</tbody>
</table>

Biological limit values
No biological exposure limits noted for the ingredient(s).
Follow standard monitoring procedures. Provide adequate general and local exhaust ventilation. An eye wash and safety shower must be available in the immediate work area.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**
Wear safety glasses with side shields (or goggles). Wear face shield if there is risk of splashes.

**Skin protection**

**Hand protection**
Wear chemical-resistant, impervious gloves. Use protective gloves made of: Rubber or plastic. Suitable gloves can be recommended by the glove supplier.

**Skin protection**

**Other**
Wear appropriate chemical resistant clothing. Rubber or plastic apron.

**Respiratory protection**
In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.

**Thermal hazards**
Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**
When using, do not eat, drink or smoke. Keep from contact with clothing and other combustible materials. Remove and wash contaminated clothing promptly. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

**9. Physical and chemical properties**

**Appearance**
Purple. Liquid.

**Physical state**
Liquid.

**Form**
Aqueous solution.

**Color**
Purple.

**Odor**
Odorless.

**Odor threshold**
Not available.

**pH**
5 - 8

**Melting point/freezing point**
Not available.

**Initial boiling point and boiling range**
Not available.

**Flash point**
Does not flash.

**Evaporation rate**
Not available.

**Flammability (solid, gas)**
Not applicable.

**Upper/lower flammability or explosive limits**

**Flammability limit - lower**
Not applicable.

**Flammability limit - upper**
Not applicable.

**Vapor pressure**
Not available.

**Vapor density**
Not available.

**Relative density**
Not available.

**Solubility(ies)**

**Solubility (water)**
Miscible with water.

**Partition coefficient (n-octanol/water)**
Not applicable for inorganic substances.

**Auto-ignition temperature**
Not available.

**Decomposition temperature**
437°F (225 °C)

**Viscosity**
Not available.

**Other information**

**Density**
9.76 lb/gal

**Explosive properties**
Not explosive. Can explode in contact with sulfuric acid, peroxides and metal powders.

**Oxidizing properties**
Oxidizer.
10. Stability and reactivity

Reactivity
Not available.

Chemical stability
Stable at normal conditions.

Possibility of hazardous reactions
Contact with combustible material may cause fire. Can explode in contact with sulfuric acid, peroxides and metal powders.

Conditions to avoid
Contact with incompatible materials or heat (135 °C / 275 °F) could result in violent exothermic chemical reaction.

Incompatible materials

Hazardous decomposition products
By heating and fire, corrosive vapors/gases may be formed. Contact with hydrochloric acid liberates chlorine gas.

11. Toxicological information

Information on likely routes of exposure

**Inhalation**
May cause irritation to the respiratory system.

**Skin contact**
Causes severe skin burns.

**Eye contact**
Causes serious eye damage.

**Ingestion**
Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics
Contact with this material will cause burns to the skin, eyes and mucous membranes. Permanent eye damage including blindness could result.

Information on toxicological effects

**Acute toxicity**
Harmful if swallowed.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium permanganate (CAS 7722-64-7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50 Rat</td>
<td></td>
<td>2000 mg/kg</td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td>2000 mg/kg</td>
</tr>
</tbody>
</table>

Toxicity data are not available for sodium permanganate. Toxicity is expected to be similar to that of potassium permanganate.

**Skin corrosion/irritation**
Causes severe skin burns.

**Serious eye damage/eye irritation**
Causes serious eye damage.

**Respiratory or skin sensitization**

**Respiratory sensitization**
Not classified.

**Skin sensitization**
Not classified.

**Germ cell mutagenicity**
Not classified.

**Carcinogenicity**
Not classified.

- **IARC Monographs. Overall Evaluation of Carcinogenicity**
  Not listed.
- **NTP Report on Carcinogens**
  Not listed.
  Not regulated.

**Reproductive toxicity**
Not classified.

**Specific target organ toxicity - single exposure**
May cause irritation of respiratory tract.

**Specific target organ toxicity - repeated exposure**
Not classified.

**Aspiration hazard**
Not classified.
Chronic effects

Chronic effects are not expected when this product is used as intended. Prolonged exposure, usually over many years, to manganese oxide fume/dust can lead to chronic manganese poisoning, chiefly affecting the central nervous system.

12. Ecological information

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium permanganate (CAS 7722-64-7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>2.7 mg/l, 96 hours static</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.3 mg/l, 96 hours flow through</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.3 mg/l, 96 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.8 - 5.6 mg/l</td>
</tr>
<tr>
<td></td>
<td>Bluegill (Lepomis macrochirus)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Carp (Cyprinus carpio)</td>
<td>3.16 - 3.77 mg/l, 96 hours</td>
</tr>
<tr>
<td></td>
<td>Goldfish (Carassius auratus)</td>
<td>2.97 - 3.11 mg/l, 96 hours</td>
</tr>
<tr>
<td></td>
<td>Milkfish, salmon-herring (Chanos chanos)</td>
<td>&gt; 1.4 mg/l, 96 hours</td>
</tr>
<tr>
<td></td>
<td>Rainbow trout (Oncorhynchus mykiss)</td>
<td>1.8 mg/l, 96 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.08 - 1.38 mg/l, 96 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.77 - 1.27 mg/l, 96 hours</td>
</tr>
</tbody>
</table>

Toxicity data are not available for sodium permanganate. Toxicity is expected to be similar to that of potassium permanganate.

Persistence and degradability
Expected to be readily converted by oxidizable materials to insoluble manganese oxide.

Bioaccumulative potential
Potential to bioaccumulate is low.

Mobility in soil
The product is miscible with water. May spread in water systems.

Other adverse effects
None known.

13. Disposal considerations

Disposal instructions
Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Hazardous waste code
D001: Ignitable waste
The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products
Do not allow this material to drain into sewers/water supplies.

Contaminated packaging
Since emptied containers may retain product residue, follow label warnings even after container is emptied. Rinse container at least three times to an absence of pink color before disposing. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

UN number
UN3214

UN proper shipping name
Permanganates, inorganic, aqueous solution, n.o.s. (Sodium permanganate)

Transport hazard class(es)
Class 5.1
Subsidiary risk -
Label(s) 5.1
Packing group II

Environmental hazards
Marine pollutant Yes

Special precautions for user
Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.

Special provisions
26, 353, IB2, T4, TP1

Packaging exceptions
152

Packaging non bulk
202

Packaging bulk
242
IATA

UN number: UN3214
UN proper shipping name: Permanganates, inorganic, aqueous solution, n.o.s. (Sodium permanganate)
Transport hazard class(es):
- Class: 5.1
- Subsidiary risk: -
- Label(s): 5.1
Packing group: II
Environmental hazards: Yes
ERG Code: 5L
Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number: UN3214
UN proper shipping name: PERMANGANATES, INORGANIC, AQUEOUS SOLUTION, N.O.S. (Sodium permanganate)
Transport hazard class(es):
- Class: 5.1
- Subsidiary risk: -
- Label(s): 5.1
Packing group: II
Environmental hazards: Yes
EmS: F-H, S-Q
Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.

Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

15. Regulatory information

US federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.
CERCLA/SARA Hazardous Substances - Not applicable.
Drug Enforcement Administration (DEA) (21 CFR 1310.02 (b) 8: List II chemical.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not regulated.
CERCLA Hazardous Substance List (40 CFR 302.4)
Sodium permanganate (CAS 10101-50-5) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
- Immediate Hazard - Yes
- Delayed Hazard - No
- Fire Hazard - Yes
- Pressure Hazard - No
- Reactivity Hazard - No

SARA 302 Extremely hazardous substance
Not listed.
SARA 311/312 Hazardous chemical
Yes

SARA 313 (TRI reporting)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>% by wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium permanganate</td>
<td>10101-50-5</td>
<td>19-21</td>
</tr>
</tbody>
</table>

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Sodium permanganate (CAS 10101-50-5)
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.

Safe Drinking Water Act (SDWA)
Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number
Sodium permanganate (CAS 10101-50-5) 6588

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
Sodium permanganate (CAS 10101-50-5) 15 %WT

DEA Exempt Chemical Mixtures Code Number
Sodium permanganate (CAS 10101-50-5) 6588

US state regulations
This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US. Massachusetts RTK - Substance List
Not regulated.

US. New Jersey Worker and Community Right-to-Know Act
Sodium permanganate (CAS 10101-50-5)

US. Pennsylvania Worker and Community Right-to-Know Law
Not listed.

US. Rhode Island RTK
Sodium permanganate (CAS 10101-50-5)

US. California Proposition 65
Not Listed.

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date: 16-September-2013
Revision date: 28-February-2019
Version #: 03

Further information
HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings
Health: 3*
Flammability: 0
Physical hazard: 1

NFPA ratings

HMIS® ratings
List of abbreviations

GHS: Globally Harmonized System of Classification and Labeling of hazardous properties of Chemicals.
TWA: Time weighted average.
LD50: Lethal Dose, 50%.
LC50: Lethal Concentration, 50%.
IMDG: International Maritime Dangerous Goods.
IATA: International Air Transport Association.

References

HSDB® - Hazardous Substances Data Bank
Registry of Toxic Effects of Chemical Substances (RTECS)
IARC Monographs. Overall Evaluation of Carcinogenicity
National Toxicology Program (NTP) Report on Carcinogens
ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

Disclaimer

The information contained herein is accurate to the best of our knowledge. However, data, safety standards and government regulations are subject to change and, therefore, holders and users should satisfy themselves that they are aware of all current data and regulations relevant to their particular use of product. CARUS CORPORATION DISCLAIMS ALL LIABILITY FOR RELIANCE ON THE COMPLETENESS OR ACCURACY OR THE INFORMATION INCLUDED HEREIN.

CARUS CORPORATION MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR USE OR PURPOSE OF THE PRODUCT DESCRIBED HEREIN. All conditions relating to storage, handling, and use of the product are beyond the control of Carus Corporation, and shall be the sole responsibility of the holder or user of the product.

(Carus and design) is a registered service mark of Carus Corporation.
CARUSOL® is a registered trademark of Carus Corporation.
Supplier: Carus Corporation

Insurance Exhibit (West Hartford)

For the purpose of this exhibit: the term "Contractor" shall also include their respective agents, representatives, employees or subcontractors; and the term "Town of West Hartford and West Hartford Board of Education" (hereinafter called the "Town") shall include their respective officers, agents, officials, employees, volunteers, boards and commissions.

The Contractor shall procure and maintain the required insurance coverage against claims that may arise from, or in connection with the services and goods provided by the Contractor for the duration of the contract term, including any and all extensions. The Contractor shall provide the Town with a certificate of insurance confirming compliance with this exhibit prior to commencement of the contract. Such insurance shall be written for not less than specified, or required by applicable federal, state and/or municipal law, regulation or requirement, whichever is greater. The Contractor shall assume any and all premiums and deductibles in the described insurance policies. Both the Contractor and Contractor's insurer(s) agree to have no right of recovery or subrogation against the Town and the described insurance shall be primary coverage. Any failure to comply with the claim reporting provisions of the policy shall not affect coverage provided to the Town. Each required insurance policy shall not be suspended, voided, cancelled or reduced except after thirty (30) days prior written notice, ten (10) days notice for non-payment, has been given to the Town.

All liability policies (with the exception of Worker’s Compensation) shall include the Town of West Hartford, the West Hartford Board of Education, and their respective officers, agents, officials, employees, volunteers, boards and commissions as an Additional Insured and shall include, but not be limited to investigation, defense, settlement, judgment or payment of any legal liability. Failure to maintain the required insurance coverage and Additional Insured Endorsements shall be grounds for termination of the contract. It is agreed that the scope and limits of the insurance specified are minimum requirements and shall in no way limit or exclude the Town from additional limits or coverage provided under each policy. The policies shall be on the occurrence form and must be written by companies licensed to do business in the State of Connecticut. The Town’s Risk Manager shall review any and all exceptions.

Commercial General Liability: $1,000,000 combined single limit per occurrence for bodily injury, personal injury, property damage, contractual liability and products/completed operations. Contractor shall continue to provide products/completed operations coverage for two (2) years after completion of the work.

Automobile Liability and Physical Damage Coverage: $1,000,000 combined single limit per occurrence for any auto, including statutory uninsured/underinsured motorists coverage and $1,000 medical payments. Policy to include collision and comprehensive coverage for any auto used for the purpose of this contract.

Umbrella Liability: $1,000,000 per occurrence, $2,000,000 aggregate following form.

Workers’ Compensation: Statutory limits including Employer’s Liability with limits of $100,000 each accident, $500,000 for each disease/policy limit, and $100,000 for disease for each employee as required by the State of Connecticut. If the Contractor decides not to procure workers’ compensation in accordance with Connecticut law, the Contractor agrees to comply with the Connecticut Workers’ Compensation Act’s (Act) requirements for withdrawing from the provisions of the Act, including, but not limited to, filing the appropriate notice of withdrawal with the commissioner. The Contractor is wholly responsible for taking the actions necessary to withdraw from the provisions of the Act. In lieu of procuring workers’ compensation insurance and providing the Town with proof thereof, the Contractor agrees to hold the Town of West Hartford, the West Hartford Board of Education, their respective boards and commissions, officers, agents, officials, employees, servants, volunteers, contractors and representatives harmless from any and all suits, claims, and actions arising from personal injuries sustained by him during the course of the performance of this contract, however caused.

Personal Property for "all risk” insurance on a replacement cost basis to cover the value of personal property belonging to the Contractor and others (including but not limited to the personal property of subcontractors) located on Town property while in use or in storage for the duration of the contract. Deductible not to exceed $1,000.

Barbie Smith  
Duly Authorized  
March 21, 2019  
Date

Barbie Smith  
(Print Name Here)
the Contractor and others (including but not limited to the personal property of subcontractors) located on Town property.

Personal Property

from personal injuries sustained by him during the course of the performance of this contract, however caused.

employees, servants, volunteers, contractors and representatives harmless from any and all suits, claims, and actions arising.

Hartford, the West Hartford Board of Education, their respective boards and commissions, officers, agents, officials,

Compensation insurance and providing the Town with proof thereof, the Contractor agrees to hold the Town of West

responsible for taking the actions necessary to withdraw from the provisions of the Act.

Act, including, but not limited to, filing the appropriate notice of withdrawal with the commissioner.

comply with the Connecticut Workers

for each disease/policy limit, and $100,000 for disease for each employee as required by the State of Connecticut.

Workers

Umbrella Liability:

and comprehensive coverage for any auto used for the purpose of this contract.

Automobile Liability and Physical Damage Coverage:

including statutory uninsured/underinsured motorists coverage and $1,000 medical payments.

Commercial General Liability:

minimum requirements and shall in no way limit or exclude the Town from additional limits or coverage provided under

shall be grounds for termination of the contract.

or payment of any legal liability

insurer(s) agree to have no right of recovery or subrogation against the Town and the described insurance shall be

assume any and all premiums and deductibles in the described insurance policies.

applicable federal, state and/or municipal law, regulation or requirement, whichever is greater.

exhibit prior to commencement of the contract.

The Contractor shall procure and maintain the required insurance coverage against claims that may arise from, or in

connection with the services and goods provided by the Contractor for the duration of the contract term, including any

The Contractor shall provide the Town with a certificate of insurance confirming compliance with this

For the purpose of this exhibit: the term "Contractor" shall also include their respective agents, representatives, employees

Carus Corporation
Barbie Smith
March 21, 2019
Duly Authorized
Date
Barbie Smith
(Print Name Here)
GENERAL VENDOR INFORMATION

VENDORS ARE ASKED TO FILL OUT THIS FORM SO THAT THEIR BID RESPONSES ARE CONSIDERED COMPLETE.

The undersigned: is aware that any CRPC member may reject any and all bids, or any part of any and all bids; is aware that quantities furnished herein are estimates only; has not included any state or federal taxes for which the CRPC members are not liable; and is making this bid without collusion with any person, individual or corporation.

COMPANY

Carus Corporation

REPRESENTATIVE

Barbie Smith

POSITION

Bid Channel Manager

ADDRESS

315 Fifth Street

Peru, IL

(ZIP)

61354

TELEPHONE #

800-435-6856

FAX #

815-224-6697

TAX ID #

36-0877400

E-MAIL ADDRESS

bids@caruscorporation.com

PAYMENT TERMS

0%

30 Days

DATE:

March 21, 2019
bids@caruscorporation.com

SIGNATURE

Barbie Smith

PAYMENT TERMS: 0% 30 Days

DATE: March 21, 2019
I. MODIFICATIONS TO GENERAL TERMS AND CONDITIONS

INTENT
The Capitol Region Purchasing Council (CRPC), on behalf of certain Capitol Region towns, boards of education, and agencies, requests bids for the procurement of Swimming Pool & Water Treatment Chemicals for the period commencing April 1, 2019 and ending March 31, 2020. Each respective CRPC member will make its own awards and payments according to the terms and conditions set forth in these specifications. A written order from each awarding CRPC member will be required before any deliveries commence.

PRODUCT SPECIFICATIONS
The applicable products of the bid proposal shall meet the referenced standards of the American Water Works Association (AWWA). If requested by any of the participating entities, the successful contractor(s) shall furnish written certification that the product(s) supplied meet the applicable AWWA standard(s).

NOTE: Copies of AWWA Standards may be obtained from:
American Water Works Association
6666 West Quincy Avenue
Denver, CO 80235
Telephone: (303) 794-7711
Fax: (303) 794-7310

SAFETY SHEET REQUIREMENT
All contractors must supply, at no cost to the participating entities, Material Data Safety Sheets for any chemical, especially toxic or hazardous compounds.

TESTING
The participating entities reserve the right to have chlorine tested upon request for appropriate concentration levels at the site of delivery. The vendor shall bear the cost of all such tests and deliveries may be refused if concentration levels do not meet specifications.

SPILLAGE
Any spillage at the time of delivery will be the responsibility of the vendor and any costs to repair resultant damages or any penalties assessed against a member agency because of pollution resulting from such spillage shall be borne by the vendor.

SODIUM HYPOCHLORITE SOLUTION – For Disinfection – shall meet AWWA Standard B300 of current issue
Sodium Hypochlorite Solution as described is intended for use in water purification and shall be of High Concentration Industrial type. It shall be free from impurities which shall affect its proper usage and enhance its decomposition. It shall be a clear, greenish-yellowish liquid, free from sediment or suspended matter. It shall be miscible with cold distilled water. It shall be 12.5% or 15% chlorine by weight.
Sodium Hypochlorite Solution shall be packed in containers which comply with the regulations of the U.S. Department of Transportation for the transportation of explosive and other dangerous articles. Sodium Hypochlorite shall be delivered in five-gallon plastic carboys, 55 gallon drums or in bulk.

**CALCIUM HYPOCHLORITE – For Disinfection – shall meet AWWA Standard B300 of current issue**
Calcium Hypochlorite is intended for water treatment purposes and to have 70% available chlorine, by weight HTH, Hi-test, Perchloron or equivalent. It is to be furnished in granular form as specified. 100 pound drums.

**ALUMINIUM SULFATE – For Coagulation – shall meet AWWA Standard B403 of current issue**
Aluminium Sulfate (alum) shall be for water treatment purposes. It is to be furnished in 100 pound, moisture-proof bags (granular form).

**SODA ASH – For Softening – shall meet AWWA Standard B201 of current issue**
Soda Ash (Sodium Carbonate) technical grade over 50% light ash; over 95% $\text{Na}_2\text{CO}_3$. It is to be furnished in 60 pound moisture-proof bags and in bulk.

**DIATOMITE FILTER MEDIUM**
Material of diatomite filter shall be Johns-Manville Celite #545 or equal. To be packed in 50 pound bags. (Diatomaceous Earth)

**ALGICIDE**
Algicide is to be liquid, 10% solution in one-gallon containers.

**PHENOL RED INDICATOR**
To be furnished in pint containers

**MURIATIC ACID – Shall meet ASTM Standards Specifications E1146 of current issue**
Bids are requested for 1 gallon and 15 gallon containers.

**SODIUM METABISULFITE SOLUTION 38% TO 40%**
Bids are requested for bulk purchases and 55 gallon drums.

**CYANURIC ACID (POOL CHLORINE STABILIZERS)**
To be furnished in pounds

**CALCIUM CHLORIDE – For scale and corrosion control – shall meet AWWA Standard B550 of current issue**
Granular or flaked – packed in 50 pound waterproof bags.

**SODIUM BICARBONATE – Shall meet ASTM Standard Specification D928 of current issue**
Packed in 50 pound bags.

**SUPER BLUE CRYSTAL CLEAR**
To be furnished in one-half gallon containers

**POTASSIUM PERMANGANATE – For taste and odor control – shall meet AWWA Standard B603 of current issue**
Free-flowing grade in 55 pound drums.

**SODIUM HYDROXIDE 50%/25% SOLUTION**
Bids are requested for 50% solution in 50 gallon drums and 25% in bulk.

**SODIUM THIO SULFATE**
100 pound bags

**POTASSIUM HYDROXIDE** – For scale and corrosion control – shall meet AWWA Standard B511 of current issue
45% caustic potash commercial grade to be furnished in 660 pound containers (55 gallon drums)

**PH PLUS**
50 pound pails

**PH MINUS**
50 pound pails

**CHLORINE NEUTRALIZER**
40 pound pail

**TEST KITS**
Per kit

**PULSAR PLUS BRIQUETTES CALCIUM HYPOCHLORITE, 65% ACTIVE**

**SODIUM PERMANGANATE**
Bids are requested for 50 gallon drums or 250 gallon totes.

**ZETAG 7587 DRY POLYMER**
Bids are requested for 56 pound bags.

**WINTER TABS (Chlorine tablets without cyanuric acid)**
Bids are requested in pounds

**NON-COPPER ALGICIDE**
Bids are requested in gallons.

**FRESH N KLEAR**
Monopersulfate with sodium carbonate, 25 pound buckets.

**SEA KLEAR**
Natural H₂O clarifier, twelve 1 quart bottles per case.

**GRANULAR CHLORINE**

**NON-TOXIC ANTFREEZE**

**SODIUM BI-SULFITE (NaSO₃) 38% SOLUTION**

**SODIUM HYPOCHLORITE (NaOCl) 15% SOLUTION**

**POLY ALUMINUM CHLORIDE (liquid) (PACL)**

**SODIUM PERMANGANATE (NaMnO₄) SOLUTION**

**POLYMER STAFLOC 128**
POLYMER STAFLOC 128
SODIUM PERMANGANATE (NaMnO4) SOLUTION
POLY ALUMINUM CHLORIDE (liquid) (PACL)
SODIUM HYPOCHLORITE (NaOCl) 15% SOLUTION
SODIUM BICARBONATE
GRANULAR CHLORINE
Natural H
SEA KLEAR
FRESH N KLEAR
Bids are requested in gallons.
WINTER TABS (Chlorine tablets without cyanuric acid)
Bids are requested for 56 pound bags.
ZETAG 7587 DRY POLYMER
SODIUM PERMANGANATE
PULSAR PLUS BRIQUETTES CALCIUM HYPOCHLORITE, 65% ACTIVE
TEST KITS
40 pound pail
CHLORINE NEUTRALIZER
50 pound pails
PH MINUS
50 pound pails
PH PLUS
45% caustic potash commercial grade to be furnished in 660 pound containers (55 gallon drums)
POTASSIUM HYDROXIDE
100 pound bags
SODIUM THIO SULFATE
Bids are requested for 50% solution in 50 gallon drums and 25% in bulk.
SODIUM HYDROXIDE 50%/25% SOLUTION
POTASSIUM PERMANGANATE
To be furnished in one
SUPER BLUE CRYSTAL CLEAR
Packed in 50 pound bags.
SODIUM BICARBONATE
Granular or flaked
CALCIUM CHLORIDE
To be furnished in pounds
CYANURIC ACID (POOL CHLORINE STABILIZERS
Bids are requested for bulk purchases and 55 gallon drums.
SODIUM METABISULFITE SOLUTION 38% TO 40%
MURIATIC ACID
To be furnished in pint containers
Algicide is to be liquid, 10% solution in one
ALGICIDE (Diatomaceous Earth)
Material of diatomite filter shall be Johns
DIATOMITE FILTER MEDIUM
in 60 pound moisture
Soda Ash (Sodium Carbonate) technical grade over 50% light ash; over 95% Na
moisture
Aluminium Sulfate (alum) shall be for water treatment purposes. It is to be furnished in 100 pound,
ALUMINIUM SULFATE

Concentration Industrial type. It shall be free from impurities which shall affect its proper usage and
Sodium Hypochlorite Solution as described is intended for use in water purification and shall be of High
enhance its decomposition. It shall be a clear, greenish

From such spillage shall be borne by the vendor.
resultant damages or any penalties assessed against a member agency because of pollution resulting
may be refused if concentration levels do not meet specifications.
The participating entities reserve the right to have chlorine tested
TESTING
chemical, especially toxic or hazardous compounds.
SAFETY SHEET REQUIREMENT
shall furnish written certification that the product(s) supplied meet the applicable AWWA standard(s).
Works Association (AWWA). If requested by any of the participating entities, the successful contractor(s)
The applicable products of the bid proposal shall meet the referenced standards of the American Water
specifications. A written order from each awarding CRPC member will be required before any deliveries
member will make its own awards and payments according to the terms and conditions set forth in these
Chemicals
INTENT
Supplier:
Carus Corporation
Telephone: (303) 794
Fax: (303) 794

Supplier:
Capitol Region Purchasing Council
241 MAIN STREET, 4
TH FLOOR
HARTFORD, CT 06106
Bid #684: Swimming Pool & Water Treatment

ADDENDUM #1 FOR INVITATION TO BID #684 COVERING SWIMMING POOL AND WATER TREATMENT CHEMICALS

This addendum is posted to notify users and vendors that duplicate line items have been removed from the bid.

Please note that all other terms and conditions appearing in the original Invitation to Bid remain. Vendors are asked to sign, date, and return this sheet, along with their bids, in order to verify their receipt of this addendum prior to the specified submission deadline. Please fill out all sections below in order to ensure that your response is considered complete.

Name: Barbie Smith  
Title: Bid Channel Manager  
Company: Carus Corporation  
Address: 315 Fifth Street  
Peru, IL 61354  
Telephone: 800-435-6856  
Signature: Date:  
bids@caruscorporation.com
<table>
<thead>
<tr>
<th>Item #</th>
<th>Line Item</th>
<th>Notes</th>
<th>Unit Price</th>
<th>Qty/Unit</th>
<th>Attch.</th>
<th>Docs</th>
</tr>
</thead>
<tbody>
<tr>
<td>684-01-01</td>
<td>Sodium Hypochlorite 12.5% available chlorine, 5 gallon carboys</td>
<td>Supplier Notes:</td>
<td><strong>First Offer</strong> - $3.37</td>
<td>1 / gallon</td>
<td><strong>$3.37</strong></td>
<td><strong>Y</strong></td>
</tr>
<tr>
<td>684-01-02</td>
<td>Sodium Hypochlorite 12.5% available chlorine, 55 gallon drums</td>
<td></td>
<td><strong>No Bids</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>684-01-03</td>
<td>Sodium Hypochlorite 12.5% available chlorine, bulk</td>
<td></td>
<td><strong>No Bids</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>684-01-04</td>
<td>Sodium Hypochlorite 15% available chlorine, 5 gallon carboys</td>
<td></td>
<td><strong>No Bids</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>684-01-05</td>
<td>Sodium Hypochlorite 15% available chlorine, bulk</td>
<td></td>
<td><strong>No Bids</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>684-01-06</td>
<td>Calcium Hypochlorite HTH Granular, 100 pound drum</td>
<td></td>
<td><strong>No Bids</strong></td>
<td></td>
<td></td>
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<tr>
<td>684-01-07</td>
<td>Aluminum Sulfate Granular, 100 pound bags</td>
<td></td>
<td><strong>No Bids</strong></td>
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<tr>
<td>684-01-08</td>
<td>Soda Ash, 50 pound bags</td>
<td>Supplier Notes:</td>
<td><strong>First Offer</strong> - $0.40</td>
<td>1 / bag</td>
<td><strong>$0.40</strong></td>
<td><strong>Y</strong></td>
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<tr>
<td>684-01-09</td>
<td>Soda Ash, bulk</td>
<td></td>
<td><strong>No Bids</strong></td>
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<tr>
<td>684-01-10</td>
<td>Diatomite Filer celite #545/Equivalent, 50 pound bags</td>
<td>Supplier Notes:</td>
<td><strong>First Offer</strong> - $0.6875</td>
<td>1 / bag</td>
<td><strong>$0.6875</strong></td>
<td><strong>Y</strong></td>
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<tr>
<td>Item #</td>
<td>Description</td>
<td>Supplier</td>
<td>Lot Size</td>
<td>Unit Price</td>
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<tr>
<td>684-01-11</td>
<td>Algicide, 1 gallon container</td>
<td>Supplier</td>
<td>1 pint</td>
<td>$18.60</td>
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<tr>
<td>684-01-12</td>
<td>Phenol Red Indicator</td>
<td>Supplier</td>
<td>1 pint</td>
<td>$18.60</td>
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<td>684-01-13</td>
<td>Muriatic Acid, 1 gallon containers</td>
<td>Supplier</td>
<td>1 gallon</td>
<td>$3.75</td>
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<td></td>
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<tr>
<td>684-01-14</td>
<td>Muriatic Acid, 15 gallon container</td>
<td>Supplier</td>
<td>1 gallon</td>
<td>$0.34</td>
<td></td>
<td></td>
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<tr>
<td>684-01-15</td>
<td>Sodium Metabisulfite Solution 38% to 40%</td>
<td>Supplier</td>
<td>1 gallon</td>
<td>$0.34</td>
<td></td>
<td></td>
</tr>
<tr>
<td>684-01-16</td>
<td>Cyanuric Acid</td>
<td>Supplier</td>
<td>25 pound</td>
<td>$3.93</td>
<td></td>
<td></td>
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<tr>
<td>684-01-17</td>
<td>Calcium Chloride, granular</td>
<td>Supplier</td>
<td>45 pound</td>
<td>$3.93</td>
<td></td>
<td></td>
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<tr>
<td>684-01-18</td>
<td>Calcium Chloride, flaked</td>
<td>Supplier</td>
<td>50 pound</td>
<td>$2.20</td>
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<tr>
<td>684-01-19</td>
<td>Sodium Bicarbonate</td>
<td>Supplier</td>
<td>50 pound</td>
<td>$1.90</td>
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<tr>
<td>684-01-20</td>
<td>Superblue Crystal Clear</td>
<td>Supplier</td>
<td>1 gallon</td>
<td>$47.85</td>
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Note: No Bids
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<th>Qty/Unit</th>
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<td>684-01-21</td>
<td>Potassium Permanganate</td>
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<tr>
<td>684-01-22</td>
<td>Sodium Hydroxide, 50% solution</td>
<td></td>
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<tr>
<td>684-01-23</td>
<td>Sodium Hydroxide, 25%</td>
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<tr>
<td>684-01-24</td>
<td>Sodium Thio Sulfate</td>
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<tr>
<td>684-01-25</td>
<td>Potassium Hydroxide 45%</td>
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<td>684-01-26</td>
<td>PH Plus</td>
<td>Supplier</td>
<td>First Offer</td>
<td>1/pail</td>
<td>$19.50</td>
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<td>50 pound</td>
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<tr>
<td>684-01-27</td>
<td>PH Minus</td>
<td>Supplier</td>
<td>First Offer</td>
<td>1/pail</td>
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<td>25 pound pail</td>
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<td>684-01-28</td>
<td>Chlorine Neutralizer</td>
<td>Supplier</td>
<td>First Offer</td>
<td>1/pail</td>
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<td></td>
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<td>25 pound</td>
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<tr>
<td>684-01-29</td>
<td>Test Kits</td>
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<tr>
<td>684-01-30</td>
<td>Pulsar Plus Briquette Calcium</td>
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<tr>
<td></td>
<td>Hypochlorite, 65% active</td>
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<tr>
<td>684-01-31</td>
<td>Sodium Permanganate</td>
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<tr>
<td>684-01-32</td>
<td>Zetag 7587 Dry Polymer</td>
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<tr>
<td>684-01-33</td>
<td>Winter Tabs</td>
<td>Supplier</td>
<td>First Offer</td>
<td>1/pound</td>
<td>$2.69</td>
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<td>12437</td>
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<td>Code</td>
<td>Description</td>
<td>Supplier Notes:</td>
<td>First Offer</td>
<td>Unit</td>
<td>Price</td>
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<tr>
<td>684--01-34</td>
<td>Non-Copper Algicide</td>
<td>3” Jumbo Tabs, 35 gallon</td>
<td>Supplier Product Code: 14030</td>
<td>1 / gallon</td>
<td>$51.33</td>
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<td>684--01-35</td>
<td>Fresh N Klear</td>
<td>Supplier Product Code: 14546</td>
<td>Supplier Notes: 25 pound</td>
<td>1 / pound</td>
<td>$2.53</td>
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<td>684--01-36</td>
<td>Sea Klear</td>
<td>Supplier Product Code: 200732</td>
<td>Supplier Notes: Twelve one quart bottles</td>
<td>1 / case</td>
<td>$153.36</td>
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<td>684--01-37</td>
<td>Granular Chlorine</td>
<td>Supplier Product Code: 14208</td>
<td>Supplier Notes: 50 pound</td>
<td>1 / pound</td>
<td>$1.83</td>
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<td>684--01-38</td>
<td>Non-toxic Antifreeze</td>
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<td>No Bids</td>
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<tr>
<td>684--01-39</td>
<td>Container Deposit:</td>
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<tr>
<td>684--01-40</td>
<td>Container Deposit:</td>
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<td></td>
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<tr>
<td>684--01-41</td>
<td>Sodium Bi·Sulfite (NaSO3)</td>
<td></td>
<td>No Bids</td>
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<tr>
<td>684--01-42</td>
<td>Sodium Hypochlorite (NaOCl)</td>
<td></td>
<td>No Bids</td>
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<tr>
<td>684--01-43</td>
<td>Poly Aluminum Chloride (Liquid)</td>
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<td>No Bids</td>
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<tr>
<td>684--01-44</td>
<td>Polymer StaFloc 128</td>
<td></td>
<td>No Bids</td>
<td></td>
<td></td>
</tr>
<tr>
<td>684--01-45</td>
<td>MicroC2000</td>
<td></td>
<td>No Bids</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Leslies Poolmart Inc.

Item: **Superblue Crystal Clear**

<table>
<thead>
<tr>
<th>Attachments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bio-Dex Clearex 500 Pool and Spa Water Clarifier.pdf</td>
</tr>
</tbody>
</table>
Bio-Dex 14934 Clearex 500 Pool and Spa Water Clarifier, 1 gallon
Sku: 14934        LPM #: 14934

Bio-Dex Clearex 500 Specifications

<table>
<thead>
<tr>
<th>Chemical Type</th>
<th>Clarifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>Bio-Dex</td>
</tr>
<tr>
<td>Product Type</td>
<td>Pool Chemical</td>
</tr>
</tbody>
</table>

About the Bio-Dex Clearex 500

Clearex 500 is a professional strength clarifier that works quickly to clear a cloudy pool.

Pool Chemical Features

- Just 2 ounces treats 14,000 gallons of water
- 1 quart treats 224,000 gallons
- Natural and safe

Clearex 500 is a professional strength product that is suitable for home use. It's safe and is hypoallergenic, non-carcinogenic, non-corrosive and non-flammable. It won’t clog your pool or spa’s filter and works effectively with all pool filtration systems. Clearex 500 is free of petroleum and is not an oil-based product. You can get clear and sparkling water safely and quickly with this product.
Safety Data Sheet (SDS)
BIO-DEX LABORATORIES, LLC

Clearex 500

SDS Number: 232
Revision Date: 5/9/2015

1. PRODUCT AND COMPANY IDENTIFICATION

Manufacturer
BIO-DEX LABORATORIES, LLC
4212 W. INNOVATION DR.
PHOENIX, AZ 85086

Contact: BIO-DEX LABORATORIES, LLC
Phone: 800-617-3477 // 623-582-2400
Web: www.bio-dex.com

Product Name: Clearex 500
Revision Date: 5/9/2015
Version: 1.00
SDS Number: 232
CAS Number: MIXTURE
Chemical Family: Flocculant Polymer
Chemical Formula: *** PROPRIETARY ***
Synonyms: Swimming Pool Water Clarifying Solution
Product Use: Biodegradable Polymer Solution for Commercial Pools
Emergency Phone: (800) 424-9300 (CHEMTREC)

2. HAZARDS IDENTIFICATION

NFPA: Health = 0, Fire = 0, Reactivity = 0
HMIS III: H0/F0/PH0

GHS Precautionary Statements:
P264 - Wash skin thoroughly after handling.
P302+352 - IF ON SKIN: Wash with soap and water.
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P332+313 - If skin irritation occurs: Get medical advice/attention.
P337+313 - If eye irritation persists: Get medical advice/attention.
P362 - Take off contaminated clothing and wash before reuse.
P501 - Dispose of contents/container to an approved waste disposal plant.

### COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Percentage</th>
<th>Chemical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>100%</td>
<td>Proprietary, non-hazardous, non-regulated</td>
</tr>
</tbody>
</table>

### FIRST AID MEASURES

**Inhalation:**
Give oxygen or artificial respiration if needed. If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.

**Skin Contact:**
Promptly flush skin with water for at least 15 minutes to ensure all chemical is removed. Remove contaminated clothing and wash before reuse. If reddening develops and/or persists, obtain medical attention.

**Eye Contact:**
Flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Remove contact lenses if present and easy to do so. If eye irritation persists, obtain medical attention.

**Ingestion:**
Rinse mouth with water. Do NOT induce vomiting unless instructed to do so. Give 3-4 glasses of water or milk to dilute stomach contents. Never give anything by mouth to an unconscious person. If symptoms develop and/or persist, obtain medical attention.

**Most important symptoms and effects, both acute and delayed:**
The most important known symptoms and effects are described in the labelling (see Section 2) and/or Section 11.

**Indication of any immediate medical attention and special treatment needed:**
No data available.

### FIRE FIGHTING MEASURES

**Flammability:**
Not flammable

**Flash Point:**
DNA

**Flash Point Method:**
DNA

**Burning Rate:**
No data available

**Autoignition Temp:**
No data available

**LEL:**
No data available

**UEL:**
No data available

**Extinguishing Media:**
Water Spray
Water Fog
Carbon Dioxide
Alcohol-Resistant Foam
Dry Chemical

**Special Hazards Arising From the Substance or Mixture:**
Carbon Oxides
Hydrochloric Acid gas
Nitrogen Oxides (NOx)
Sodium Oxides

Advice for Firefighters:
Firefighters should wear full-face, positive-pressure respirators.

Further Information:
If incinerated, may release toxic fumes.
Use water spray to cool unopened containers.
See Section 7 for more information on safe handling.
See Section 8 for more information on personal protection equipment.
See Section 13 for disposal information.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:
Use personal protective equipment.
Keep from contacting skin or eyes.
Avoid breathing vapors, mist or gas.
Ensure adequate ventilation.
Evacuate personnel to safe areas.

Environmental Precautions:
Prevent further release (leakage/spillage) if safe to do so.

Methods and Materials for Containments and Cleaning Up:
Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).
Place contaminated material into suitable, closed containers for disposal.
Dispose of contaminated material according to Section 13.
After spillage has been collected, area may be flushed with water or wet-brushed.
Ensure adequate ventilation.

Reference to Other Sections:
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for information on proper disposal.

7 HANDLING AND STORAGE

Handling Precautions:
Avoid contact with eyes, skin, or clothing.
Keep containers closed when not in use.
Do not expose containers to open flame, excessive heat, or direct sunlight.
Do not smoke, eat or drink when using this product.
Do not puncture or drop containers.
Handle with care and avoid spillage on the floor.
Keep material out of reach of children.
Keep material away from incompatible materials.
Wash thoroughly after handling.
Ensure adequate ventilation.

Storage Requirements:
Keep container tightly closed.
Do not store in direct sunlight.
Store away from strong bases, strong oxidizing agents, Iron and Iron salts, Steel (all types
and surface treatments), Copper and Aluminum.

## EXPOSURE CONTROLS/PERSONAL PROTECTION

### Engineering Controls:
All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

### Personal Protective Equip:

#### Eye/face protection:
When using material use safety glasses according to HMIS PP, A. All safety equipment should be tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

#### Skin protection:
Not required. If desired, handle with gloves made from PVC, Neoprene, Nitrile or Buma rubber. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact. Dispose of contaminated gloves according to applicable laws and laboratory practices.

#### Body Protection:
Chemically resistant safety glasses are recommended. Type of protective equipment should be selected based on concentration amount and conditions of use of this material.

#### Respiratory protection:
Full-face vapor respirator may be required as backup to engineering controls when proper engineering controls are not in place to keep TLV and PEL limits below defined thresholds. Respiratory protection must comply with 29 CFR 1910.134.

#### Control of environmental exposure:
Prevent leakage or spillage if safe to do so. Do not let material enter drains.

### Components with workplace control parameters:
Contains no substances with occupational exposure limit values.

### Biological occupational exposure limits:
Contains no substances with biological occupational exposure limit values.
## 9 PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance:</td>
<td>Clear, colorless to light gold liquid</td>
</tr>
<tr>
<td>Physical State:</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor Threshold:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Particle Size:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Spec Grav./Density:</td>
<td>1.006 - 1.020 g/ml (8.40 - 8.51 lbs/gal)</td>
</tr>
<tr>
<td>Viscosity:</td>
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<tr>
<td>Sat. Vap. Conc.:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Boiling Point:</td>
<td>&gt; 100 °C (212 °F)</td>
</tr>
<tr>
<td>Flammability:</td>
<td>(solid, gas): Not flammable</td>
</tr>
<tr>
<td>Partition Coefficient:</td>
<td>Not determined</td>
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<tr>
<td>Vapor Pressure:</td>
<td>(mm Hg @ 25 °C): &lt; 0.01</td>
</tr>
<tr>
<td>pH:</td>
<td>@ 100%: 5.0 - 8.0</td>
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<tr>
<td>Evap. Rate:</td>
<td>(N-Butyl Acetate = 1): Not determined</td>
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<tr>
<td>Molecular weight:</td>
<td>MIXTURE</td>
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<td>Decomp Temp:</td>
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<td>Odor:</td>
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<td>Molecular Formula:</td>
<td>MIXTURE</td>
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<td>Solubility:</td>
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<td>Softening Point:</td>
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<td>Heat Value:</td>
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<td>Flash Point:</td>
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<td>Octanol:</td>
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<td>Vapor Density:</td>
<td>(air = 1): Same as water</td>
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<tr>
<td>Bulk Density:</td>
<td>Not determined</td>
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<tr>
<td>Auto-Ignition Temp:</td>
<td>Not determined</td>
</tr>
<tr>
<td>UFL/LFL:</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

## 10 STABILITY AND REACTIVITY

- **Stability:** Product is stable under normal conditions.
- **Conditions to Avoid:** Incompatibilities, flames, ignition sources.
- **Materials to Avoid:** Strong bases, strong oxidizing agents, Iron and Iron salts, Steel (all types and surface treatments), Copper and Aluminum.
- **Hazardous Decomposition:** Carbon Oxides, Hydrochloric Acid gas, Nitrogen Oxides (NOx) and Sodium Oxides.
- **Hazardous Polymerization:** Will not occur.

## 11 TOXICOLOGICAL INFORMATION

### Component(s):
- **Clearex 500**

### Acute Toxicity:
- **LD50 Oral - Rat:** 14,600 mg/kg
- **LD50 Dermal - Rabbit:** > 20,000 mg/kg

### Skin Corrosion/Irritation:
- Prolonged contact may cause skin irritation.

### Serious Eye Damage/ Eye Irritation:
- Prolonged contact may cause eye irritation.

### Respiratory or Skin Sensitization:
- Does not cause sensitization.

### Germ Cell Mutagenicity:
- No data available.

### Carcinogenicity:
- **IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.
- **ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity: No data available.

Specific Target Organ Toxicity - Single Exposure: No data available.

Specific Target Organ Toxicity - Repeated Exposure: No data available.

Aspiration Hazard: No data available.

Additional Information: No data available.

ECOLOGICAL INFORMATION

Component(s): Clearex 500
CAS No(s): N/A

Toxicity:
Toxicity to fish:
LC50 - Oncorhynchus mykiss (Rainbow Trout): 0.74 mg/l (96 h)
LC50 Danio rerio (Zebra Fish): 10 - 100 mg/l (96 h)

Toxicity to daphnia and other aquatic invertebrates:
EC50 - Daphnia magna (Water Flea): 1.8 mg/l (48 h)

Persistence and Degradability:
Readily biodegradable.

Bioaccumulative potential:
This material is not expected to bioaccumulate.

Mobility in Soil:
Soil/Sediment: 50 - 70%

Results of PBT and vPvB assessment:
Not required/conducted.

Other Adverse Effects:
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

DISPOSAL CONSIDERATIONS

Product: Hazardous wastes shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution, release into the environment or damage to people and animals. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging: Dispose of as unused product.
14 TRANSPORT INFORMATION

**DOT (US)**
Non-regulated material, liquid

**IMDG**
Non-regulated material, liquid

**IATA**
Non-regulated material, liquid

15 REGULATORY INFORMATION

**COMPONENT / (CAS/PERC) / CODES**

| Proprietary, non-hazardous, non-regulated (N/A 100%) NJHS, PA, TSCA |

**REGULATORY KEY DESCRIPTIONS**

| NJHS = NJ Right-to-Know Hazardous Substances |
| PA = PA Right-To-Know List of Hazardous Substances |
| TSCA = Toxic Substances Control Act |

16 OTHER INFORMATION

**Disclaimer:**

The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material in any process. The information set forth herein is furnished free of charge and is based on technical data that BIO-DEX LABORATORIES, LLC. believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside of BIO-DEX LABORATORIES, LLC's control, BIO-DEX LABORATORIES, LLC. makes no warranties, expressed or implied, and assumes no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under, or a recommendation to infringe upon, any patents.

**Preparation Information:**

GHS Conversion Services
www.ghsconversionsservices.com
(414) 336-2546
<table>
<thead>
<tr>
<th>Leslies Poolmart Inc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item: <strong>Winter Tabs</strong></td>
</tr>
</tbody>
</table>

**Attachments**

Leslies 3 Inch Jumbo Tabs Chlorine Buckets.pdf
Leslie's 35 lb. 3 in. Jumbo Tabs Chlorine Bucket

Leslie's 3 Inch Jumbo Tabs Specifications

<table>
<thead>
<tr>
<th>Active Ingredient</th>
<th>Trichloro-S-Triazinetrione</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Size</td>
<td>3 inch Tablet</td>
</tr>
<tr>
<td>Chemical Type</td>
<td>Chlorine</td>
</tr>
<tr>
<td>Dosage</td>
<td>1 per week</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Leslie's</td>
</tr>
<tr>
<td>Product Type</td>
<td>Pool Chemical</td>
</tr>
</tbody>
</table>

About the Leslie's 3 Inch Jumbo Tabs

Our 3" Jumbo Tabs are densely compacted, chlorine tablets to provide your swimming pool with long lasting sanitation and easy maintenance. Dosage: 1 per week.

Pool Chemical Features

- 3" Chlorine Tablets
- 8 oz. individually-wrapped tablets
- No fillers or binders
- 99% Trichloro-s-triazinetrione (Tri-Chlor) Active Ingredient
- Densely compressed, and slow-dissolving
- 90% Available Chlorine

These 3 Inch Tri-Chlor Jumbo Tabs fit perfectly in most chemical feeders to ensure proper and simple sanitation for your swimming pool. These chlorine tabs are densely compacted and erode at a slow rate that provides constant chlorination, increased lifespan, and a better value. With 90% available chlorine, our Jumbo Tabs are among the strongest available on the market today.

These chlorine tablets are designed with a built-in UV inhibitor that protects the chlorine in your pool against the harsh sun rays. The active inhibitor blocks the sun rays to ensure longer lasting sanitation in your swimming pool. These chlorine tablets don't contain fillers or binders in order to ensure effectiveness and sparkling clean pool water. Achieve clearer water with our 3 Jumbo Chlorine Tabs!
1. Product and Company Identification

Product identifier: Leslie's Swimming Pool Supplies 3" Jumbo Tabs

Other means of identification:
- Poolfresh 3" Tablets
- Leslie's Swimming Pool Supplies Floating Chlorinator
- Leslie's Swimming Pool Supplies Chlor Sticks
- Leslie's Swimming Pool Supplies 1" Chlor Tabs

Recommended use: Sanitizer

Recommended restrictions: None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer:
- Company name: LPM Manufacturing, Inc.
- Address: 2005 E. Indian School Rd., Phoenix, AZ 85016, United States
- Telephone: 602-366-3999
- E-mail: Not available.

Emergency phone number: 800-424-9300 (CHEMTREC)

2. Hazards Identification

Physical hazards: Oxidizing solids Category 2

Health hazards:
- Acute toxicity, oral Category 4
- Acute toxicity, inhalation Category 2
- Skin corrosion/irritation Category 1C
- Serious eye damage/eye irritation Category 1
- Reproductive toxicity Category 1B
- Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Environmental hazards: Not classified.

OSHA defined hazards: Not classified.

Label elements:

Signal word: Danger

Hazard statement:
- May intensify fire; oxidizer.
- Harmful if swallowed.
- Fatal if inhaled.
- Causes severe skin burns and eye damage.
- May cause respiratory irritation.
- May damage fertility or the unborn child.

Precautionary statement:

Prevention:
- Keep away from heat. Keep/Store away from clothing/.../combustible materials. Take any precaution to avoid mixing with combustibles.
- Do not breathe dust/fume. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Wear respiratory protection.
- Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Response
In case of fire: Use appropriate media to extinguish.
If inhaled: Remove person to fresh air and keep comfortable for breathing. Specific treatment is urgent (see this label).
If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center/doctor.
If exposed or concerned: Get medical advice/attention.

Storage
Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)
Damp or wet material may generate nitrogen trichloride, an explosion hazard. Contact with acids liberates toxic gas.

Supplemental information
None.

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Mixtures</th>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1,3,5-Triazine-2,4,6(1H,3H,5H)-trion e, 1,3,5-trichloro-</td>
<td>87-90-1</td>
<td>98-100</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Boric acid</td>
<td>10043-35-3</td>
<td>0.1-0.5</td>
<td></td>
</tr>
</tbody>
</table>

4. First Aid Measures

Inhalation
Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Skin contact
If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

Eye contact
If in eyes, hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Ingestion
If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed
Acute Symptoms/Effects: Listed below.
Eye: Serious Eye Damage. Exposure to the eyes may cause irritation and burns to the eye lids, conjunctivitis, corneal edema, and corneal burn. Significant and prolonged contact may cause damage to the internal contents of the eyes.
Skin: Skin Corrosion. Exposure to the solid along with moisture may cause redness, irritation, burning sensation, swelling, blister formation, first, second, or third degree burns to the skin.
Inhalation (Breathing): Respiratory System Effects: Exposure to the solid product or to free chlorine evolving from the product may cause irritation, redness of upper and lower airways, coughing, laryngeospasm and edema, shortness of breath, bronchoconstriction, and possible pulmonary edema to the user. The pulmonary edema may develop several hours after a severe acute exposure.
Ingestion (Swallowing): Gastrointestinal Effects: Exposure by ingestion may cause irritation, nausea, and vomiting. May cause local tissue damage to esophagus and stomach such as burning, inflammation, local ulceration, and may cause gastrointestinal bleeding.
Delayed Symptoms/Effects: Repeated and prolonged skin contact with the product may cause a dermatitis.

Indication of immediate medical attention and special treatment needed
Probable mucosal damage may contraindicate the use of gastric lavage. Treat this product as a corrosive substance. This material is more irritating to the skin and eyes in the presence of water. For prolonged exposures and significant exposures, consider delayed injury to exposed tissues. There is no antidote available. Cyanuric acid is readily removed from the body via the renal system, and is not bioaccumulated. Treatment is supportive care. Follow normal parameters for airway, breathing, and circulation when treating the victim.

General information
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

5. Fire Fighting Measures

Suitable extinguishing media
Flood with water.

---

3/27/2019
BidSync
Unsuitable extinguishing media
Dry chemical. carbon dioxide (CO2). Do not use halogenated extinguishing agents or foam. Do not use ABC fire extinguishers.

Specific hazards arising from the chemical
May intensify fire; oxidizer.

Special protective equipment and precautions for firefighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions
Consider evacuation of personnel located downwind of fire. Keep unnecessary people away from the fire, isolate hazard area and deny entry. Move the container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Wear NIOSH approved positive-pressure self-contained breathing apparatus operated in pressure demand mode if available. Material which appears undamaged except for being damp on the outside, should be opened and inspected immediately. DO NOT attempt to reseal the contaminated drums. DAMP material should be neutralized to a non-oxidizing state by using proper methods. Confirm with manufacturer before proceeding. Contact manufacturer for instructions for handling and disposal of damp material.

Specific methods
Cool containers exposed to flames with water until well after the fire is out.

General fire hazards
Negligible fire hazard. If heated by an outside source to temperatures above 240°C (464°F), this product will undergo decomposition with the evolution of noxious gases but no visible flame. Wet material may generate nitrogen trichloride which is an explosion hazard.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures
Isolate the hazard area and deny entry. Do not get in eyes, on skin or on clothing. Do not breathe dust, fumes, gas, mists, vapors, or spray. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up
Minimize dust generation and accumulation. DO NOT add water to the spilled material. DO NOT use floor sweeping compounds to clean up spills. Sweep and scoop the spilled material into clean, dedicated equipment. Avoid mixing spilled material with other chemicals or debris when cleaning up. DO NOT attempt to reseal the contaminated drums. DO NOT transport wet or damp product. DAMP material should be neutralized to a non-oxidizing state under the instruction from the manufacturer. Contact the manufacturer for instructions for handling and disposal of damp material. For waste disposal, see section 13 of the SDS.

Environmental precautions
Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. Keep out of waterways.

7. Handling and Storage

Precautions for safe handling
Avoid contact with eyes, skin and clothing. Do not breathe dust. Minimize dust generation and accumulation. Wash hands thoroughly after handling. Wear appropriate personal protective equipment.

Conditions for safe storage, including any incompatibilities
Do not contaminate water, food or feed by storage and disposal. Store in a cool, dry, well-ventilated place. Keep away from heat, open flames or other sources of ignition. Store in a cool dry place inaccessible to children and pets.

8. Exposure Controls/Personal Protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>US. ACGIH Threshold Limit Values</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boric acid (CAS 10043-35-3)</td>
<td>STEL</td>
<td>6 mg/m3</td>
<td>Inhalable fraction.</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>2 mg/m3</td>
<td>Inhalable fraction.</td>
</tr>
</tbody>
</table>

Biological limit values
No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls
Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. Eye wash facilities and emergency shower must be available when handling this product. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection
Chemical splash goggles. Eye wash fountain is recommended.

Skin protection

Hand protection

Other
Wear appropriate chemical resistant clothing.

Respiratory protection
Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Wear respirator with dust filter.

Thermal hazards
Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations
When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Wash hands after handling and before eating.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White Tablet</td>
</tr>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>Form</td>
<td>Tablet</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight chlorine</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>2.9 - 3.5 @ 25°C (1% solution)</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>478 °F (247.78 °C)</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
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</tr>
<tr>
<td>Pour point</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not available</td>
</tr>
<tr>
<td>(n-octanol/water)</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td></td>
</tr>
<tr>
<td>Flammability limit - lower (%)</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability limit - upper (%)</td>
<td>Not available</td>
</tr>
<tr>
<td>Explosive limit - lower (%)</td>
<td>Not available</td>
</tr>
<tr>
<td>Explosive limit - upper (%)</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>&lt;0.002 Pa @ 20°C</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>0.98 mg/100 g @ 20°C</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>478 °F (247.8 °C)</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
<tr>
<td>Other information</td>
<td></td>
</tr>
<tr>
<td>Bulk density</td>
<td>63 - 66 lb/ft³ (loose)</td>
</tr>
<tr>
<td>Molecular formula</td>
<td>C3N3O3Cl3</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>232.4</td>
</tr>
</tbody>
</table>

10. Stability and Reactivity

Reactivity

Possibility of hazardous reactions
No dangerous reaction known under conditions of normal use.

Chemical stability
Material is stable under normal conditions.

Conditions to avoid
Never add water to product. Always add product to large quantities of water. Use only clean, dry utensils. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with moisture, organic material or other chemicals may start a chemical reaction with generation of heat, liberation of hazardous gases and possible fire or explosion. Avoid contact with flaming or burning material, such as lighted cigarette. In case of contamination or decomposition, do not reseal container. If possible, isolate container in open and well-ventilated area and flood with large amounts of water.

Incompatible materials

Hazardous decomposition products
11. Toxicological Information

Information on likely routes of exposure

**Ingestion**
Harmful if swallowed. May cause irritation, nausea, and vomiting. May cause local tissue damage to epiglottis, mucus membranes of the mouth, esophagus and stomach such as burning, inflammation, local ulceration, and may cause gastrointestinal bleeding if ingested.

**Inhalation**
Fatal if inhaled. This material in the form is not expected to produce respiratory effects. Particles of respirable size are generally not encountered in this form. The respirable fraction is typically less than 0.1% by weight for the granular and extra granular grades. If ground or otherwise in a powdered form, effects similar to a corrosive substance may occur to the user. Exposure to the solid product or to free chlorine evolving from the product may cause irritation, redness of upper and lower airways, coughing, laryngeospasm and edema, shortness of breath, bronchoconstriction, and possible pulmonary edema. The pulmonary edema may develop several hours after a severe acute exposure to the product.

**Skin contact**
Causes severe skin burns. Severe Irritation, Corrosive (rabbit, 24 hr). Exposure to the solid along with moisture may cause redness, irritation, burning sensation, swelling, blister formation, first, second, or third degree burns. Dry material may be less irritating than wet material.

**Eye contact**
Causes serious eye damage. Severe Irritation, Corrosive (rabbit, 24 hr). May cause burns to the eye lids, conjunctivitis, corneal edema, and corneal burn. Significant and prolonged contact may cause damage to the internal contents of eyes.

**Symptoms related to the physical, chemical and toxicological characteristics**
Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Information on toxicological effects

**Acute toxicity**
Fatal if inhaled. Harmful if swallowed. May cause respiratory irritation.

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leslie's Swimming Pool Supplies 3&quot; Jumbo Tabs (CAS Mixture)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dermal</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Rat</td>
<td>0.09 - 0.29 mg/m3, 4 hours</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>809 mg/kg</td>
</tr>
<tr>
<td><strong>Components</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-trichloro- (CAS 87-90-1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dermal</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>&gt;= 2000 mg/kg</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>406 mg/kg</td>
</tr>
<tr>
<td>Boric acid (CAS 10043-35-3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dermal</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>2000 mg/kg</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Chicken</td>
<td>2950 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Dog</td>
<td>2000 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Mouse</td>
<td>3450 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>2660 mg/kg</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**
Causes severe skin burns and eye damage in presence of moisture.

**Exposure minutes**
Not available.

**Erythema value**
Not available.

**Oedema value**
Not available.

**Serious eye damage/eye irritation**
Causes serious eye damage in presence of moisture.
Corneal opacity value Not available.
Iris lesion value Not available.
Conjunctival reddening value Not available.
Conjunctival oedema value Not available.
Recover days Not available.

Respiratory or skin sensitization
Respiratory sensitization Not available.
Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity
This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

Reproductive toxicity
May damage fertility or the unborn child.

Specific target organ toxicity - single exposure
Respiratory tract irritation.

Specific target organ toxicity - repeated exposure
Not classified.

Aspiration hazard Not available.

Chronic effects Not available.

Further information Not available.

12. Ecological Information

Ecotoxicity See below

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-trichloro- (CAS 87-90-1) Crustacea</td>
<td>EC50</td>
<td>Daphnia</td>
</tr>
<tr>
<td>Boric acid (CAS 10043-35-3) Crustacea</td>
<td>EC50</td>
<td>Daphnia</td>
</tr>
<tr>
<td>Aquatic Fish</td>
<td>LC50</td>
<td>Razorback sucker (Xyrauchen texanus)</td>
</tr>
</tbody>
</table>

Persistence and degradability
No data is available on the degradability of this product.

Bioaccumulative potential
Not available.

Partition coefficient n-octanol / water (log Kow)
Leslie's Swimming Pool Supplies 3" Jumbo Tabs 0

Mobility in soil
No data available.

Mobility in general
Not available.

Other adverse effects
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Considerations

Disposal instructions
This material is a registered pesticide. May be subject to disposal regulations. Dispose of contents/container in accordance with local/regional/national/international regulations. Do not place product, spilled product, or filled or partially filled containers into the trash or waste compactor. DO NOT transport wet or damp waste material. Damp material should be neutralized to a non-oxidizing state. Contact the manufacturer for instructions for handling and disposal of damp material.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Non-refillable container. Do not reuse or refill this container. Triple rinse (or equivalent) empty container then offer for recycling, if available, or discard in trash.

Local disposal regulations
Disperse in accordance with all applicable regulations.

Hazardous waste code
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

General
Regulated. For ground or air shipments only, non-bulk packages are regulated as oxidizers. Bulk Packaging or Shipment by Vessel: Regulated as below:

U.S. Department of Transportation (DOT)

Basic shipping requirements:
- **UN number**: UN2468
- **Proper shipping name**: Trichloroisocyanuric acid, dry, MARINE POLLUTANT
- **Hazard class**: 5.1
- **Packing group**: II
- **Marine pollutant**: Yes
- **Special provisions**: IB8, IP2, IP4, T3, TP33
- **Packaging exceptions**: 152
- **Packaging non bulk**: 212
- **Packaging bulk**: 240

DOT

15. Regulatory Information

US federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

EPA Reg. # 11411-3

DANGER
Keep out of reach of children.

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS. HIGHLY CORROSIVE. Causes irreversible eye damage. May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or clothing. Do not breathe dust, vapor or spray mist. Wear goggles or safety glasses, rubber gloves and protective clothing when handling this product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

ENVIRONMENTAL HAZARD: This pesticide is toxic to fish and aquatic organisms.

PHYSICAL OR CHEMICAL HAZARD: Strong oxidizing agent. Do not mix with other chemicals. Never add water to product. Always add product to large quantities of water. Use only clean, dry utensils. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with moisture, organic material or other chemicals may start a chemical reaction with generation of heat, liberation of hazardous gases and possible fire or explosion. Avoid contact with flaming or burning material, such as lighted cigarette. In case of contamination or decomposition, do not reseal container. If possible, isolate container in open and well-ventilated area and flood with large amounts of water.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)
Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.
Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
- Immediate Hazard - Yes
- Delayed Hazard - Yes
- Fire Hazard - Yes
- Pressure Hazard - No
- Reactivity Hazard - Yes

SARA 302 Extremely hazardous substance
- No

SARA 311/312 Hazardous chemical
- No

SARA 313 (TRI reporting)
- Not regulated.

Other federal regulations
- Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
  - Not regulated.
- Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
  - Not regulated.
- Safe Drinking Water Act (SDWA)
  - Not regulated.
- Food and Drug Administration (FDA)
  - Not regulated.

US state regulations
- California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):
  This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance
- Not listed.

US - New Jersey RTK - Substances: Listed substance
  - 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, Listed.
  - 1,3,5-trichloro- (CAS 87-90-1) Listed.

US - Texas Effects Screening Levels: Listed substance
  - 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, Listed.
  - 1,3,5-trichloro- (CAS 87-90-1) Listed.
  - Boric acid (CAS 10043-35-3) Listed.

US. Massachusetts RTK - Substance List
- 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, Listed.
- 1,3,5-trichloro- (CAS 87-90-1) Listed.

US. Pennsylvania RTK - Hazardous Substances
- 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, Listed.
- 1,3,5-trichloro- (CAS 87-90-1) Listed.

US. Rhode Island RTK
- Not regulated.

Country(s) or region | Inventory name | On inventory (yes/no)*
---|---|---
United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

### 16. Other Information

<table>
<thead>
<tr>
<th>LEGEND</th>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
<th>PERSONAL PROTECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severe</td>
<td>4</td>
<td>0</td>
<td>2</td>
<td>X</td>
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<tr>
<td>Serious</td>
<td>3</td>
<td>0</td>
<td></td>
<td></td>
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<tr>
<td>Moderate</td>
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<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Slight</td>
<td>1</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimal</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#26172 Page: 8 of 9 Issue date 24-June-2015

3/27/2019 BidSync
Disclaimer
The information in this sheet has been written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Issue date
24-June-2015

Further information
For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

Other information
This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Prepared by
Dell Tech Laboratories Ltd. Phone: (519) 858-5021
<table>
<thead>
<tr>
<th>Leslies Poolmart Inc.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Item:</strong> Non-Copper Algicide</td>
<td></td>
</tr>
<tr>
<td><strong>Attachments</strong></td>
<td></td>
</tr>
<tr>
<td>Leslies Algae Control Pool Chemical.pdf</td>
<td></td>
</tr>
</tbody>
</table>
Leslie's One Gallon Algae Control 14030

Leslie's Algae Control Specifications

<table>
<thead>
<tr>
<th>Chemical Type</th>
<th>Algaecide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dosage</td>
<td>11-16oz per 10,000 gallons and 2-4 oz per 10,000 gallons</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Leslie's</td>
</tr>
<tr>
<td>Product Type</td>
<td>Pool Chemical</td>
</tr>
</tbody>
</table>

About the Leslie's Algae Control

Leslie's Algae Control eliminates algae while preventing the future outbreak of algae and slime for a clean and clear pool.

Pool Chemical Features

- Algaecide & algaestat
- Available in 1 quart, 1/2 gallon, and 1 gallon bottles
- Quickly eliminates algae blooms
- Non-metallic non-staining
- Kills all known types of algae
- Gentle on swimmers and pools
- Non foaming, and highly concentrated
- Pre-blended at 60% strength.

Leslie's Algae Control is a powerful quick-acting cleaner that eliminates algae blooms to keep your pool safe. The powerful concentrated formula is one of the strongest on the market and won't foam or stain your pool. A few ounces of Leslie's Algae Control goes a long way, saving you time and money.

Leslie's Algae Control kills all types of pool algae, including pink algae and stops future algae and slime. Pool Algae Control works great for opening or closing your pool. A couple ounces when closing your pool keeps algae blooms from developing. A couple ounces at the beginning of the season will leave your pool sparkling clean. The formula is a low odor formula that is gentle on swimmers and your pool. Just drop in a few ounces a week and keep your spa, outdoor fountains, vinyl, plaster, fiberglass, and tile pools clean all year.

Dosage Instructions:

- For pools with visible algae growth, add an initial dose of 11 to 16 oz per 10,000 gallons of water.
- For treatment of freshly cleaned and filled pools, add 6 to 11 oz per 10,000 gallons of water.
- Subsequent additions of 2 to 4 oz per 10,000 gallons of water should be made every 5 to 7 days after initial treatment.
1. Product and Company Identification

Product identifier: Leslie's Swimming Pool Supplies Algae Control
Other means of identification: Biocides
Recommended use: Algaecide
Recommended restrictions: None known.
Manufacturer: LPM Manufacturing, Inc.
2005 E. Indian School Rd.
Phoenix, AZ 85016 US

2. Hazards Identification

Physical hazards: Not classified.
Health hazards:
- Acute toxicity, oral: Category 4
- Acute toxicity, inhalation: Category 4
- Serious eye damage/eye irritation: Category 2B

Environmental hazards: Not classified.
OSHA defined hazards: Not classified.

Label elements

Signal word: Warning
Hazard statement:
- Harmful if swallowed.
- Harmful if inhaled.
- Causes eye irritation.

Precautionary statement

Prevention:
Avoid breathing vapors.
Use only outdoors or in a well-ventilated area.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves.
Wear eye/face protection.

Response:
If swallowed: Call a poison center/doctor if you feel unwell.
Rinse mouth.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Call a poison center/doctor if you feel unwell.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Storage: Store away from incompatible materials.
Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC): None known.
Supplemental information: Not applicable.

3. Composition/Information on Ingredients

Mixture

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly(oxyethylene(dimethyliminio)ethylene (dimethyliminio)ethylene dichloride)</td>
<td>31512-74-0</td>
<td>60</td>
<td></td>
</tr>
</tbody>
</table>
4. First Aid Measures

**Inhalation**
If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

**Skin contact**
If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

**Eye contact**
Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**Ingestion**
Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Most important symptoms/effects, acute and delayed**
Causes eye irritation.

**Indication of immediate medical attention and special treatment needed**
Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**General information**
Show this safety data sheet to the doctor in attendance.

5. Fire Fighting Measures

**Suitable extinguishing media**
Treat for surrounding material.

**Unsuitable extinguishing media**
None known.

**Specific hazards arising from the chemical**
During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters**
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire-fighting equipment/instructions**
Move containers from fire area if you can do so without risk.

**Specific methods**
Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards**
No unusual fire or explosion hazards noted.

**Hazardous combustion products**
Not available.

**Explosion data**
Not available.

6. Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures**
Immediately evacuate personnel to safe areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors or mists. Ensure adequate ventilation. Wear appropriate protective equipment and clothing during clean-up. In case of insufficient ventilation, wear suitable respiratory equipment.

**Methods and materials for containment and cleaning up**
Stop the flow of material, if this is without risk.

Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Environmental precautions**
Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground. Inform the relevant authorities if the product has caused environmental pollution.

7. Handling and Storage

**Precautions for safe handling**
Do not taste or swallow. Avoid breathing vapor. Avoid contact with skin. Avoid contact with eyes. Avoid contact with clothing. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Use care in handling/storage.

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.
Store in original tightly-closed container in areas inaccessible to small children and pets. Store away from incompatible materials (see Section 10 of the SDS). Do not contaminate water, food or feed by storage or disposal. Store locked up. Store in a dry, cool and well-ventilated area.

8. Exposure Controls/Personal Protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation should be used. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

Wear suitable protective clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Not applicable.

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and Chemical Properties

Appearance

Clear

Physical state

Liquid.

Form

Liquid.

Color

Pale yellow

Odor

Mild

Odor threshold

Not available.

pH

7 (Neutral)

Melting point/freezing point

< 3.2 °F (< -16 °C)

Initial boiling point and boiling range

> 212 °F (> 100 °C)

Pour point

Not available.

Specific gravity

Not available.

Partition coefficient (n-octanol/water)

Not available.

Flash point

> 212.0 °F (> 100.0 °C) Tagliabue

Evaporation rate

Not available.

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)

Not available.

Flammability limit - upper (%)

Not available.

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

Not available.

Vapor density

Not available.

Relative density

1.13-1.16

Solubility(ies)

Soluble

Auto-ignition temperature

Not available.

Decomposition temperature

Not available.

Viscosity

125 cS

Other information

Density

1.15 g/cm3

pH in aqueous solution

6 - 8 (100 ppm in water)
10. Stability and Reactivity

Reactivity
This product may react with strong oxidizing agents.

Possibility of hazardous reactions
No dangerous reaction known under conditions of normal use.

Chemical stability
Material is stable under normal conditions.

Conditions to avoid
Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials
Strong oxidizing agents.

Hazardous decomposition products
May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Routes of exposure
Inhalation. Ingestion. Skin contact. Eye contact.

Information on likely routes of exposure

Ingestion
Harmful if swallowed.

Inhalation
Harmful if inhaled.

Skin contact
No adverse effects due to skin contact are expected.

Eye contact
Causes eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Acute toxicity
Harmful if inhaled. Harmful if swallowed.

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leslie's Swimming Pool Supplies Algae Control (CAS Mixture)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>Rabbit</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>Inhalation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Rat</td>
<td>2.9 mg/l/4h</td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>52000 ml/kg, estimated</td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>3000 ml/kg, estimated</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly[oxyethylene(dimethyliminio)ethylene (dimethyliminio)ethylene dichloride] (CAS 31512-74-0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>1850 mg/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Causes skin irritation.

Exposure minutes
Not available.

Erythema value
Not available.

Oedema value
Not available.

Serious eye damage/eye irritation
Causes eye irritation.

Corneal opacity value
Not available.

Iris lesion value
Not available.

Conjunctival reddening value
Not available.

Conjunctival oedema value
Not available.

Recover days
Not available.

Respiratory or skin sensitization

Respiratory sensitization
Not available.

Skin sensitization
This product is not expected to cause skin sensitization.
Germ cell mutagenicity
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Mutagenicity
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity
This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance
1,4-Dioxane (CAS 123-91-1) Carcinogenic.
Bis(2-chloroethyl) ether (CAS 111-44-4) Carcinogenic.

Reproductive toxicity
This product is not expected to cause reproductive or developmental effects.

Teratogenicity
Not available.

Specific target organ toxicity - single exposure
Not classified.

Specific target organ toxicity - repeated exposure
Not classified.

Aspiration hazard
Not available.

Chronic effects
Not available.

Further information
Not available.

Name of Toxicologically Synergistic Products
Not available.

12. Ecological Information

Ecotoxicity
This pesticide is toxic to fish, aquatic invertebrates and clams.

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leslie’s Swimming Pool Supplies Algae Control (CAS Mixture)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic Crustacea Fish</td>
<td>LC50 Invertebrates Invertebrates (Invertebrates)</td>
<td>0.37 mg/l, 48 Hours</td>
</tr>
<tr>
<td>Aquatic Fish</td>
<td>LC50 Bluegill (Lepomis macrochirus)</td>
<td>0.21 mg/l, 96 Hours</td>
</tr>
<tr>
<td></td>
<td>Fathead minnow (Pimephales promelas) Fathead minnow (Pimephales promelas)</td>
<td>0.26 mg/l, 96 Hours</td>
</tr>
<tr>
<td></td>
<td>Sheepshead minnow (Cyprinodon variegatus) Sheepshead minnow (Cyprinodon variegatus)</td>
<td>&gt; 600 mg/l, 96 Hours</td>
</tr>
</tbody>
</table>

Components
<table>
<thead>
<tr>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly[oxyethylene(dimethyliminio)ethylene (dimethyliminio)ethylene dichloride]</td>
<td>LC50 Harlequinfish, red rasbora (Rasbora heteromorpha)</td>
</tr>
</tbody>
</table>

Persistence and degradability
No data is available on the degradability of this product.

Bioaccumulative potential
No data available.

Mobility in soil
No data available.

Mobility in general
Not available.

Other adverse effects
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Considerations

Disposal instructions
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. Do not reuse empty container. Rinse container and offer for recycling where facilities exist.

Local disposal regulations
Dispose in accordance with all applicable regulations.

Hazardous waste code
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.
14. Transport Information

**General**

DOT: Not regulated as dangerous goods.

**U.S. Department of Transportation (DOT)**

Basic shipping requirements:

- **UN number**: UN3082
- **Proper shipping name**: Environmentally hazardous substances, liquid, n.o.s. (Poly[oxyethylene(dimethyliminio)ethylene (dimethyliminio)ethylene dichloride]), MARINE POLLUTANT
- **Hazard class**: 9
- **Packing group**: III
- **Marine pollutant**: Yes
- **Special provisions**: 8, 146, 173, 335, IB3, T4, TP1, TP29
- **Packaging exceptions**: 155
- **Packaging non bulk**: 203
- **Packaging bulk**: 241

**DOT**

---

15. Regulatory Information

**Canadian federal regulations**

Not available

**WHMIS status**

Controlled

**WHMIS classification**

Class D - Division 2B

**WHMIS labeling**

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

EPA Reg. # 11411-11

KEEP OUT OF THE REACH OF CHILDREN. CAUTION:

PRECAUTIONARY STATEMENTS: Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARD: This pesticide is toxic to fish, aquatic invertebrates and clams.

PHYSICAL OR CHEMICAL HAZARD: Do not mix with other chemicals. This product is a reducer. Keep away from oxidizing agents.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.
Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
- Immediate Hazard - Yes
- Delayed Hazard - No
- Fire Hazard - No
- Pressure Hazard - No
- Reactivity Hazard - No

SARA 302 Extremely hazardous substance
No

SARA 311/312 Hazardous chemical
No

SARA 313 (TRI reporting)
Not regulated.

Other federal regulations
- Safe Drinking Water Act (SDWA) Not regulated.
- Food and Drug Administration (FDA) Not regulated.

US state regulations
- WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance
- 1,4-Dioxane (CAS 123-91-1) Listed.
- Bis(2-chloroethyl) ether (CAS 111-44-4) Listed.

US. Massachusetts RTK - Substance List
Not regulated.

US. Pennsylvania RTK - Hazardous Substances
Not regulated.

US. Rhode Island RTK
Not regulated.

Inventory status

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>No</td>
</tr>
</tbody>
</table>

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

<table>
<thead>
<tr>
<th>LEGEND</th>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
<th>PERSONAL PROTECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>0</td>
<td>X</td>
</tr>
</tbody>
</table>

Severe 4
Serious 3
Moderate 2
Slight 1
Minimal 0

Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document. The above SDS reflects the latest information on file with respect to hazards, properties and handling of this product. No warranty however, expressed or implied, is made with regard to the use of this information.

Issue date 08-June-2015
Effective date 08-June-2015
Expiry date 08-June-2018

Further information
For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

Prepared by Dell Tech Laboratories Ltd. Phone: (519) 858-5021
This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).
This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.
Supplier: Leslies Poolmart Inc.

Insurance Exhibit (West Hartford)

For the purpose of this exhibit: the term "Contractor" shall also include their respective agents, representatives, employees or subcontractors; and the term "Town of West Hartford and West Hartford Board of Education" (hereinafter called the "Town") shall include their respective officers, agents, officials, employees, volunteers, boards and commissions.

The Contractor shall procure and maintain the required insurance coverage against claims that may arise from, or in connection with the services and goods provided by the Contractor for the duration of the contract term, including any and all extensions. The Contractor shall provide the Town with a certificate of insurance confirming compliance with this exhibit prior to commencement of the contract. Such insurance shall be written for not less than specified, or required by applicable federal, state and/or municipal law, regulation or requirement, whichever is greater. The Contractor shall assume any and all premiums and deductibles in the described insurance policies. Both the Contractor and Contractor's insurer(s) agree to have no right of recovery or subrogation against the Town and the described insurance shall be primary coverage. Any failure to comply with the claim reporting provisions of the policy shall not affect coverage provided to the Town. Each required insurance policy shall not be suspended, voided, cancelled or reduced except after thirty (30) days prior written notice, ten (10) days notice for non-payment, has been given to the Town.

All liability policies (with the exception of Worker’s Compensation) shall include the Town of West Hartford, the West Hartford Board of Education, and their respective officers, agents, officials, employees, volunteers, boards and commissions as an Additional Insured and shall include, but not be limited to investigation, defense, settlement, judgment or payment of any legal liability. Failure to maintain the required insurance coverage and Additional Insured Endorsements shall be grounds for termination of the contract. It is agreed that the scope and limits of the insurance specified are minimum requirements and shall in no way limit or exclude the Town from additional limits or coverage provided under each policy. The policies shall be on the occurrence form and must be written by companies licensed to do business in the State of Connecticut. The Town’s Risk Manager shall review any and all exceptions.

Commercial General Liability: $1,000,000 combined single limit per occurrence for bodily injury, personal injury, property damage, contractual liability and products/completed operations. Contractor shall continue to provide products/completed operations coverage for two (2) years after completion of the work.

Automobile Liability and Physical Damage Coverage: $1,000,000 combined single limit per occurrence for any auto, including statutory uninsured/underinsured motorists coverage and $1,000 medical payments. Policy to include collision and comprehensive coverage for any auto used for the purpose of this contract.

Umbrella Liability: $1,000,000 per occurrence, $2,000,000 aggregate following form.

Workers’ Compensation: Statutory limits including Employer’s Liability with limits of $100,000 each accident, $500,000 for each disease/policy limit, and $100,000 for disease for each employee as required by the State of Connecticut. If the Contractor decides not to procure workers’ compensation in accordance with Connecticut law, the Contractor agrees to comply with the Connecticut Workers’ Compensation Act’s (Act) requirements for withdrawing from the provisions of the Act, including, but not limited to, filing the appropriate notice of withdrawal with the commissioner. The Contractor is wholly responsible for taking the actions necessary to withdraw from the provisions of the Act. In lieu of procuring workers’ compensation insurance and providing the Town with proof thereof, the Contractor agrees to hold the Town of West Hartford, the West Hartford Board of Education, their respective boards and commissions, officers, agents, officials, employees, servants, volunteers, contractors and representatives harmless from any and all suits, claims, and actions arising from personal injuries sustained by him during the course of the performance of this contract, however caused.

Personal Property for "all risk" insurance on a replacement cost basis to cover the value of personal property belonging to the Contractor and others (including but not limited to the personal property of subcontractors) located on Town property while in use or in storage for the duration of the contract. Deductible not to exceed $1,000.

Steven Weddell
Duly Authorized

3/25/2015
Date

Steven Weddell
(Print Name Here)
The Contractor shall procure and maintain the required insurance coverage against claims that may arise from, or in connection with the services and goods provided by the Contractor for the duration of the contract term, including any connection with the services and goods provided by the Contractor for the duration of the contract term, including any...
Supplier: Leslies Poolmart Inc.

GENERAL VENDOR INFORMATION

VENDORS ARE ASKED TO FILL OUT THIS FORM SO THAT THEIR BID RESPONSES ARE CONSIDERED COMPLETE.

The undersigned: is aware that any CRPC member may reject any and all bids, or any part of any and all bids; is aware that quantities furnished herein are estimates only; has not included any state or federal taxes for which the CRPC members are not liable; and is making this bid without collusion with any person, individual or corporation.

COMPANY

Leslie's Poolmart Inc.

REPRESENTATIVE

Steven Weddell

POSITION

Chief Financial Officer

ADDRESS

2005 E. Indian School Road

Phoenix, AZ

(ZIP)

85016

TELEPHONE #

602-366-3848

FAX #

602-366-3939

TAX ID #

95-4620298

E-MAIL ADDRESS

government@lesl.com

PAYMENT TERMS

: NET 30 Days

DATE: 3/25/2015
government@lesl.com

SIGNATURE

Steven Weddell

PAYMENT TERMS: NET%30 Days

DATE: 3/25/2015
I. MODIFICATIONS TO GENERAL TERMS AND CONDITIONS

INTENT
The Capitol Region Purchasing Council (CRPC), on behalf of certain Capitol Region towns, boards of education, and agencies, requests bids for the procurement of **Swimming Pool & Water Treatment Chemicals** for the period commencing April 1, 2019 and ending March 31, 2020. Each respective CRPC member will make its own awards and payments according to the terms and conditions set forth in these specifications. A written order from each awarding CRPC member will be required before any deliveries commence.

PRODUCT SPECIFICATIONS
The applicable products of the bid proposal shall meet the referenced standards of the American Water Works Association (AWWA). If requested by any of the participating entities, the successful contractor(s) shall furnish written certification that the product(s) supplied meet the applicable AWWA standard(s).

NOTE: Copies of AWWA Standards may be obtained from:
American Water Works Association
6666 West Quincy Avenue
Denver, CO 80235
Telephone: (303) 794-7711
Fax: (303) 794-7310

SAFETY SHEET REQUIREMENT
All contractors must supply, at no cost to the participating entities, Material Data Safety Sheets for any chemical, especially toxic or hazardous compounds.

TESTING
The participating entities reserve the right to have chlorine tested upon request for appropriate concentration levels at the site of delivery. The vendor shall bear the cost of all such tests and deliveries may be refused if concentration levels do not meet specifications.

SPILLAGE
Any spillage at the time of delivery will be the responsibility of the vendor and any costs to repair resultant damages or any penalties assessed against a member agency because of pollution resulting from such spillage shall be borne by the vendor.

**SODIUM HYPOCHLORITE SOLUTION – For Disinfection – shall meet AWWA Standard B300 of current issue**
Sodium Hypochlorite Solution as described is intended for use in water purification and shall be of High Concentration Industrial type. It shall be free from impurities which shall affect its proper usage and enhance its decomposition. It shall be a clear, greenish-yellowish liquid, free from sediment or suspended matter. It shall be miscible with cold distilled water. It shall be 12.5% or 15% chlorine by weight.
Sodium Hypochlorite Solution shall be packed in containers which comply with the regulations of the U.S. Department of Transportation for the transportation of explosive and other dangerous articles. Sodium Hypochlorite shall be delivered in five-gallon plastic carboys, 55 gallon drums or in bulk.

**CALCIUM HYPOCHLORITE – For Disinfection – shall meet AWWA Standard B300 of current issue**

Calcium Hypochlorite is intended for water treatment purposes and to have 70% available chlorine, by weight HTH, Hi-test, Perchloron or equivalent. It is to be furnished in granular form as specified. 100 pound drums.

**ALUMINIUM SULFATE – For Coagulation – shall meet AWWA Standard B403 of current issue**

Aluminium Sulfate (alum) shall be for water treatment purposes. It is to be furnished in 100 pound, moisture-proof bags (granular form).

**SODA ASH – For Softening – shall meet AWWA Standard B201 of current issue**

Soda Ash (Sodium Carbonate) technical grade over 50% light ash; over 95% $\text{Na}_2\text{CO}_3$. It is to be furnished in 60 pound moisture-proof bags and in bulk.

**DIATOMITE FILTER MEDIUM**

Material of diatomite filter shall be Johns-Manville Celite #545 or equal. To be packed in 50 pound bags. (Diatomaceous Earth)

**ALGICIDE**

Algicide is to be liquid, 10% solution in one-gallon containers.

**PHENOL RED INDICATOR**

To be furnished in pint containers

**MURIATIC ACID – Shall meet ASTM Standards Specifications E1146 of current issue**

Bids are requested for 1 gallon and 15 gallon containers.

**SODIUM METABISULFITE SOLUTION 38% TO 40%**

Bids are requested for bulk purchases and 55 gallon drums.

**CYANURIC ACID (POOL CHLORINE STABILIZERS)**

To be furnished in pounds

**CALCIUM CHLORIDE – For scale and corrosion control – shall meet AWWA Standard B550 of current issue**

Granular or flaked – packed in 50 pound waterproof bags.

**SODIUM BICARBONATE – Shall meet ASTM Standard Specification D928 of current issue**

Packed in 50 pound bags.

**SUPER BLUE CRYSTAL CLEAR**

To be furnished in one-half gallon containers

**POTASSIUM PERMANGANATE – For taste and odor control – shall meet AWWA Standard B603 of current issue**

Free-flowing grade in 55 pound drums.

**SODIUM HYDROXIDE 50%/25% SOLUTION**

Bids are requested for 50% solution in 50 gallon drums and 25% in bulk.

**SODIUM THIO SULFATE**
100 pound bags

**POTASSIUM HYDROXIDE** – For scale and corrosion control – shall meet AWWA Standard B511 of current issue
45% caustic potash commercial grade to be furnished in 660 pound containers (55 gallon drums)

**PH PLUS**
50 pound pails

**PH MINUS**
50 pound pails

**CHLORINE NEUTRALIZER**
40 pound pail

**TEST KITS**
Per kit

**PULSAR PLUS BRIQUETTES CALCIUM HYPOCHLORITE, 65% ACTIVE**

**SODIUM PERMANGANATE**
Bids are requested for 50 gallon drums or 250 gallon totes.

**ZETAG 7587 DRY POLYMER**
Bids are requested for 56 pound bags.

**WINTER TABS (Chlorine tablets without cyanuric acid)**
Bids are requested in pounds

**NON-COPPER ALGICIDE**
Bids are requested in gallons.

**FRESH N KLEAR**
Monopersulfate with sodium carbonate, 25 pound buckets.

**SEA KLEAR**
Natural $\text{H}_2\text{O}$ clarifier, twelve 1 quart bottles per case.

**GRANULAR CHLORINE**

**NON-TOXIC ANTIFREEZE**

**SODIUM BI-SULFITE (NaSO3) 38% SOLUTION**

**SODIUM HYPOCHLORITE (NaOCl) 15% SOLUTION**

**POLY ALUMINUM CHLORIDE (liquid) (PACL)**

**SODIUM PERMANGANATE (NaMnO4) SOLUTION**

**POLYMER STAFLOC 128**
Bids are requested for 50% solution in 50 gallon drums and 25% in bulk.

SODIUM BICARBONATE
Granular or flaked

CALCIUM CHLORIDE
To be furnished in pounds

CYANURIC ACID (POOL CHLORINE STABILIZERS)
Bids are requested for bulk purchases and 55 gallon drums.

SODIUM METABISULFITE SOLUTION 38% TO 40%
Bids are requested for 1 gallon and 15 gallon containers.

MURIATIC ACID
To be furnished in pint containers

Algicide is to be liquid, 10% solution in one

ALGICIDE
(Diatomaceous Earth)
Material of diatomite filter shall be Johns

DIATOMITE FILTER MEDIUM
in 60 pound moisture

Soda Ash (Sodium Carbonate) technical grade over 50% light ash; over 95% Na

SODA ASH
moisture

Aluminium Sulfate (alum) shall be for water treatment purposes. It is to be furnished in 100 pound,

pound drums.

Calcium Hypochlorite is intended for water treatment purposes and to have 70% available chlorine, by

CALCIUM HYPOCHLORITE
U.S. Department of Transportation for the transportation of explosive and other dangerous articles.

Sodium Hypochlorite Solution shall be packed in containers which comply with the regulations of the

SODIUM HYPOCHLORITE SOLUTION
from such spillage shall be borne by the vendor.

SPILLAGE
may be refused if concentration levels do not meet specifications.

All contractors must supply, at no cost to the participating entities, Material Data Safety Sheets for any

NOTE: Copies of AWWA Standards may be obtained from:

Telephone: (303) 794
Fax: (303) 794
ADDENDUM #1 FOR INVITATION TO BID #684 COVERING SWIMMING POOL AND WATER TREATMENT CHEMICALS

This addendum is posted to notify users and vendors that duplicate line items have been removed from the bid.

Please note that all other terms and conditions appearing in the original Invitation to Bid remain. Vendors are asked to sign, date, and return this sheet, along with their bids, in order to verify their receipt of this addendum prior to the specified submission deadline. Please fill out all sections below in order to ensure that your response is considered complete.

Name       Tiadra Carter
Title       Government Account Executive
Company     Leslie's Poolmart, Inc.
Address     2005 E Indian School Road
(Government1
(City)       (State)       (Zip)
Telephone   6023663848
Signature   Tiadra Carter Date 03/15/19