<table>
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<th>Item #</th>
<th>Line Item</th>
<th>Notes</th>
<th>Unit Price</th>
<th>Qty/Unit</th>
<th>Atch. Docs</th>
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</thead>
</table>
| 682--01-01 | Grass Seed: 65-20-15 Athletic Mix | **Supplier Product Code:** 1662713  
 **Supplier Notes:** 49% Volt, 24% Legend, 23% Blue Note and 2% Bolt KBG PGS seed coat | First Offer - $3.36 1 / pound | $3.36 | Y |
| 682--01-02 | Grass Seed: Bluegrass Varieties | **Supplier Product Code:** 1662708  
 **Supplier Notes:** Treated w/PGS seed coat | First Offer - $75.50 8 / bag | $604.00 | Y |
| 682--01-03 | Grass Seed: CONNECT D.O.T. Type B-15 Mixture (slow-growing varieties) | | | No Bids | |
| 682--01-04 | Grass Seed: Contractor's Mix | **Supplier Product Code:** 1508296  
 **Supplier Notes:** Double Time | First Offer - $1.62 1000 / pound | $1,620.00 | Y |
| 682--01-05 | Grass Seed: CRCOG Cold Weather Tolerant Perennial Ryegrass - single variety | **Supplier Product Code:** 1662713  
 **Supplier Notes:** | First Offer - $3.36 1900 / pound | $6,384.00 | Y |
<table>
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<tr>
<th>Item #</th>
<th>Supplier Product Code</th>
<th>Supplier Notes</th>
<th>Unit Price</th>
<th>Total Price</th>
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<tbody>
<tr>
<td>682-01-07</td>
<td>Supplier Product Code: 1662723</td>
<td>49% Volt, 24% Legend, 23% Blue Note and 2% Bolt</td>
<td>First Offer - $3.54</td>
<td>$7,080.00</td>
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<tr>
<td>682-01-08</td>
<td>Supplier Product Code: 1662693</td>
<td>30% Volt, 15% Blue Note, 15% Legend, 20 Fielder, 20% Arrowhead, treated with PGS</td>
<td>First Offer - $2.34</td>
<td>$31,122.00</td>
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<tr>
<td>682-01-09</td>
<td>Supplier Product Code: 1662695</td>
<td>35% KBG 30 % PR 35 FF treated with PGS</td>
<td>First Offer - $3.01</td>
<td>$31,605.00</td>
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<tr>
<td>682-01-10</td>
<td>Supplier Product Code: 1662694</td>
<td>80%KBG/20% PR, Premium Golf and Sports Turf mix, treated with PGS</td>
<td>First Offer - $2.43</td>
<td>$7,897.50</td>
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<td>682-01-11</td>
<td>Supplier Product Code:</td>
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<td>First Offer - $0.00</td>
<td>$0.00</td>
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<tr>
<td>682-01-12</td>
<td>Supplier Product Code: 1662716</td>
<td>38% Fastball, 37% Apple SGL, 23.5% Grandslam, GLS and drought tolerant varieties</td>
<td>First Offer - $1.50</td>
<td>$48,000.00</td>
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<td>682-01-13</td>
<td>Supplier Product Code: 1662695</td>
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<td>First Offer - $3.00</td>
<td>$3.00</td>
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<td>Item #</td>
<td>Date</td>
<td>Description</td>
<td>Supplier Product Code</td>
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<tr>
<td>682-01-14</td>
<td>682</td>
<td>Grass Seed: CRCOG Tall Fescue Blend</td>
<td>1662722</td>
<td>80%KBG/20% PR, Premium Golf and Sports Turf mix, treated with PGS</td>
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<tr>
<td>682-01-15</td>
<td>682</td>
<td>Grass Seed: CRCOG Tall Fescue Varieties</td>
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<tr>
<td>682-01-16</td>
<td>682</td>
<td>Grass Seed: CSI Rye Grass (tillering)</td>
<td>1662717</td>
<td>26% Firecracker, 26 % Avenger II, 25% Super Sonic, 23 Screamer LS, treated with PGS</td>
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<tr>
<td>682-01-17</td>
<td>682</td>
<td>Grass Seed: Eagle Blend Plus Blue Seed</td>
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<tr>
<td>682-01-18</td>
<td>682</td>
<td>Grass Seed: Golf Course Special Blend</td>
<td>1662706</td>
<td>25% Stellar, 25% Sideways, 25% Apple SGL, 24 % Fastball, treated with PGS</td>
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<td>682-01-19</td>
<td>682</td>
<td>Grass Seed: Hashmark Grass Seed</td>
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<tr>
<td>682-01-20</td>
<td>682</td>
<td>Grass Seed: Kick Start Recovery Mix</td>
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<tr>
<td>682-01-21</td>
<td>682</td>
<td>Grass Seed: Penn A-4 Creeping Bentgrass, Certified single variety</td>
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<td>Line Item</td>
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<tr>
<td>682-01-22</td>
<td>Grass Seed: Penncross Creeping Bentgrass, Certified</td>
<td>Supplier Product Code: Supplier Notes: Certified</td>
<td>First Offer: $9.96 25 / pound</td>
<td>$249.00</td>
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<td>682-01-23</td>
<td>Grass Seed: Penway Bentgrass Mixture, Certified - 3 varieties</td>
<td>Supplier Product Code: Supplier Notes: Certified Special Bent Blend 34% Barracuda, 33 % Piranha, 31 % Shark, treated with PGS</td>
<td>First Offer: $8.40 1 / pound</td>
<td>$8.40</td>
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<tr>
<td>682-01-24</td>
<td>Grass Seed: Penway Bentgrass Mixture, Uncertified - 3 varieties</td>
<td>Supplier Product Code: Supplier Notes: Uncertified Special Bent Blend 34% Barracuda, 33 % Piranha, 31 % Shark, treated with PGS</td>
<td>First Offer: $7.00 250 / pound</td>
<td>$1,750.00</td>
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<td>682-01-25</td>
<td>Grass Seed: Ryegrass Varieties</td>
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<tr>
<td>682-01-26</td>
<td>Grass Seed: Straight Annual Ryegrass</td>
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<td>682-01-27</td>
<td>Grass Seed: Touch Down Grass Seed</td>
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<td>No Bids</td>
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<tr>
<td>682-02-01</td>
<td>Combination Fertilizer &amp; Pesticide: 0-0-7 and Merit 0.2</td>
<td>Supplier Product Code: Supplier Notes: 0-0-7 0.2 Merit</td>
<td>First Offer: $17.00 92 / bag</td>
<td>$1,564.00</td>
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<tr>
<td>682-02-02</td>
<td>Combination Fertilizer &amp; Pesticide: 20-0-5 with acelepryn or similar</td>
<td>Supplier Product Code: Supplier Notes: 22-0-7 .067 ACEL Anderson's</td>
<td>First Offer: $0.76 6194 / pound</td>
<td>$4,707.44</td>
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<tr>
<td>682-02-03</td>
<td>Combination Fertilizer &amp; Pesticide: 12-24-12 with Siduron</td>
<td>Supplier Product Code: Supplier Notes: Anderson's</td>
<td>First Offer: $90.00 10 / bag</td>
<td>$900.00</td>
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<tr>
<td>682-02-04</td>
<td>Combination Fertilizer &amp;</td>
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<td></td>
<td>No Bids</td>
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<td>Item #</td>
<td>Supplier</td>
<td>Product Code</td>
<td>First Offer</td>
<td>Notes</td>
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<tr>
<td>682-02-05</td>
<td>Combination Fertilizer &amp; Pesticide: 17-0-5 Barricade .37%</td>
<td>Supplier</td>
<td>First Offer - $0.30</td>
<td>1 / pound</td>
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<td>682-02-06</td>
<td>Combination Fertilizer &amp; Pesticide: 17-0-5 Barricade .37%</td>
<td>Supplier</td>
<td>No Bids</td>
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<tr>
<td>682-02-07</td>
<td>Combination Fertilizer &amp; Pesticide: 18-0-6 with broadleaf weed control (in bags)</td>
<td>Supplier</td>
<td>First Offer - $26.00</td>
<td>40 / bag</td>
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<tr>
<td>682-02-08</td>
<td>Combination Fertilizer &amp; Pesticide: 19-0-6 Fertilizer 30% slow release with .10 Dimension</td>
<td>Supplier</td>
<td>First Offer - $16.00</td>
<td>607 / bag</td>
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<tr>
<td>682-02-09</td>
<td>Combination Fertilizer &amp; Pesticide: 19-0-7 30% slow release with Pendimethilan (per bag)</td>
<td>Supplier</td>
<td>No Bids</td>
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<td>682-02-10</td>
<td>Combination Fertilizer &amp; Pesticide: 20-0-5 with acelepryn</td>
<td>Supplier</td>
<td>First Offer - $0.76</td>
<td>147 / pound</td>
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<tr>
<td>682-02-11</td>
<td>Combination Fertilizer &amp; Pesticide: 20-0-7 with broadleaf weed control (in bags)</td>
<td>Supplier</td>
<td>No Bids</td>
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<tr>
<td>682-02-12</td>
<td>Combination Fertilizer &amp; Pesticide: 24-0-7 and Merit .2% 50% slow release or equivalent</td>
<td>Supplier</td>
<td>First Offer - $22.00</td>
<td>40 / bag</td>
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<tr>
<td>682-02-13</td>
<td>Combination Fertilizer &amp; Pesticide: 24-0-11 and .1% Dimension slow release</td>
<td>Supplier</td>
<td>No Bids</td>
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<tr>
<td>682-02-14</td>
<td>Combination Fertilizer &amp; Pesticide:</td>
<td>Supplier</td>
<td>First Offer - $35.00</td>
<td>207 / bag</td>
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<tr>
<td>682-02-15</td>
<td>Combination Fertilizer &amp; Pesticide: ProScape 19-0-7, .68 Confront (40 lb. bags)</td>
<td>Supplier Notes: 30-0-7</td>
<td>$4,414.90</td>
<td>Y</td>
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<tr>
<td>682-02-16</td>
<td>Combination Fertilizer &amp; Pesticide: ProScape 19-0-9, .067 Acelepryn/Dimension</td>
<td>Supplier Product Code: Supplier Notes: 28-0-3 .167 DIM 0.67 ACEL</td>
<td>First Offer: $83.30 53 / bag</td>
<td>$30,575.36</td>
</tr>
</tbody>
</table>

### Item 682-03-01
- **Fertilizer: 7-1-7 Plus Iron - Greens Grade**
- Supplier Notes: Supplier Product Code: Supplier Notes: $49.00 55 / bag $2,695.00 Y

### Item 682-03-02
- **Fertilizer: 10-6-4**
- Fertilizer (in 50 lb bags)

### Item 682-03-03
- **Fertilizer: 12-0-6**
- Fertilizer, Fine Grade with Ammonia Sulphate and Sulphate of Potash

### Item 682-03-04
- **Fertilizer: 12-4-8**
- Fertilizer (in 50 lb bags)

### Item 682-03-05
- **Fertilizer: 12-24-14 Greens Grade**
- Supplier Notes: Supplier Product Code: Supplier Notes: 12-24-14 50% MU 40lb bag Andersons
- First Offer: $48.60 35 / bag $1,701.00 Y

### Item 682-03-06
- **Fertilizer: 17-3-19 Greens Grade**
- Supplier Notes: Supplier Product Code: Supplier Notes: 17-0-17 50MU Andersons
- First Offer: $52.80 1000 / pound $52,800.00 Y

### Item 682-03-07
- **Fertilizer: 18-24-12 +25% PPSCU**
- No Bids

### Item 682-03-08
- **Fertilizer: 19-19-19 50% Slow Release (in bags)**
- Supplier Notes: Supplier Product Code: Supplier Notes: 19-19-19 30 XCU
- First Offer: $21.75 20 / bag $435.00 Y

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*Notes:*
- Supplier Notes: 30-0-7
- Supplier Notes: 28-0-3 .167 DIM 0.67 ACEL
- First Offer: $49.00 55 / bag
- First Offer: $83.30 53 / bag
- First Offer: $48.60 35 / bag
- First Offer: $52.80 1000 / pound
- First Offer: $21.75 20 / bag
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<th>First Offer Price</th>
<th>Total Price</th>
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<tr>
<td>682-03-09</td>
<td>Fertilizer: 20-5-10 (40% Slow Release) (in 50 lb bags)</td>
<td>No Bids</td>
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<tr>
<td>682-03-10</td>
<td>Fertilizer: 20-5-10 (65% Slow Release) Fermel, 3 1/2% water soluble (in 50 lb bags)</td>
<td>No Bids</td>
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<tr>
<td>682-03-11</td>
<td>Fertilizer: 20-10-10 (50% Slow Release) (in 50 lb bags)</td>
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<tr>
<td>682-03-12</td>
<td>Fertilizer: 21-3-21</td>
<td>No Bids</td>
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<tr>
<td>682-03-13</td>
<td>Fertilizer: 22-5-20 fertilizer (75% Polyon 41, Sulfate of Potash and 1% Iron) or equivalent</td>
<td>No Bids</td>
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<tr>
<td>682-03-14</td>
<td>Fertilizer: 24-0-11 with 50% SCU</td>
<td>Supplier Product Code: 24-0-5 SFE 50 XCU</td>
<td>$16.00</td>
<td>$1,920.00</td>
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<td>682-03-15</td>
<td>Fertilizer: 24-5-11 50% Slow Release/2% Fe</td>
<td>Supplier Product Code: 24-0-5 SFE 50 XCU</td>
<td>$16.00</td>
<td>$16.00</td>
<td>Y</td>
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<td>682-03-16</td>
<td>Fertilizer: 25-0-6 50% Polypus</td>
<td>No Bids</td>
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<td>682-03-17</td>
<td>Fertilizer: 26-0-13 fertilizer 70% slow release with 50% sulphate potash and 1% iron.</td>
<td>No Bids</td>
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<td>682-03-18</td>
<td>Fertilizer: 28-5-12 50% Slow Release</td>
<td>No Bids</td>
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<tr>
<td>682-03-19</td>
<td>Fertilizer: 28-5-18 Pro Sol Fertilizer or equivalent, Water Soluble (25 lb bags)</td>
<td>Supplier Product Code: 28-6-16 25 lb bag</td>
<td>$35.00</td>
<td>$700.00</td>
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<td>682-03-20</td>
<td>Fertilizer: 32-5-7 Fertilizer, 50% Slow Release</td>
<td>No Bids</td>
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<td>682-03-21</td>
<td>Fertilizer: 34-3-11</td>
<td>Supplier Product Code: 28-3-11</td>
<td>$23.00</td>
<td>$1,840.00</td>
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<td>682-03-22</td>
<td>Fertilizer: Bolster 4-4-4 Mycorhizae</td>
<td>Supplier Product Code: Supplier Notes: 4-4-4 Bolster</td>
<td>First Offer - $32.00</td>
<td>10 / bag</td>
<td>$320.00</td>
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<td>682-03-23</td>
<td>Fertilizer: Mycor Tree Saver Transplant</td>
<td>Supplier Product Code: Supplier Notes: 11 86 UMAXX Nutrite</td>
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<td>No Bids</td>
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<tr>
<td>682-03-24</td>
<td>Fertilizer: 22-0-12</td>
<td>Supplier Product Code: Supplier Notes: 22-0-11 86 UMAXX Nutrite</td>
<td>First Offer - $26.00</td>
<td>1 / bag</td>
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<td>682-03-25</td>
<td>Fertilizer: 29-0-10</td>
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<td>No Bids</td>
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<td>682-03-26</td>
<td>Fertilizer: 28-0-14</td>
<td>Supplier Product Code: Supplier Notes: 28-0-14 30IBDU 30MU</td>
<td>First Offer - $37.00</td>
<td>1 / bag</td>
<td>$37.00</td>
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<tr>
<td>682-03-27</td>
<td>Fertilizer: 24-0-18</td>
<td>Supplier Product Code: Supplier Notes: 28-0-14 30IBDU 30MU</td>
<td>First Offer - $37.00</td>
<td>120 / bag</td>
<td>$4,440.00</td>
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<td>682-03-28</td>
<td>Fertilizer: Country Club 17-0-20</td>
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<td>682-03-29</td>
<td>Fertilizer: Country Club 13-25-12</td>
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<td>682-03-30</td>
<td>Fertilizer: Earthworks</td>
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<td>No Bids</td>
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<td>682-03-31</td>
<td>Fertilizer: Earthworks Organic 16-1-5</td>
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<td>No Bids</td>
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<td>682-03-32</td>
<td>Fertilizer: Earthworks Organic 10-2-5</td>
<td>Supplier Product Code: Supplier Notes: 10-2-10 Sustane</td>
<td>First Offer - $35.00</td>
<td>1 / bag</td>
<td>$35.00</td>
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<td>682-03-33</td>
<td>Fertilizer: Earthworks Organic 5-4-5</td>
<td>Supplier Product Code: Supplier Notes: 5-2-4</td>
<td>First Offer - $24.00</td>
<td>1 / bag</td>
<td>$24.00</td>
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<tr>
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<td>682-03-34</td>
<td>Fertilizer: Earthworks Organic 8-2-2</td>
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<td>682-03-35</td>
<td>Fertilizer: Earthworks Organic 3-4-3</td>
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<td>682-03-36</td>
<td>Fertilizer: Lebanon Country Club, 24-0-14</td>
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<tr>
<td>682-03-37</td>
<td>Fertilizer: Lebanon Country Club, 29-0-10</td>
<td>Supplier Code</td>
<td>Supplier Notes</td>
<td>$17,400.00</td>
<td>580 bag</td>
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<td>682-03-38</td>
<td>Fertilizer: Renovate Plus Soil Amendment</td>
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<td>No Bids</td>
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<td>682-03-39</td>
<td>Fertilizer: Stressphryer or Title Thyte</td>
<td>Supplier Code</td>
<td>Supplier Notes</td>
<td>$43.00</td>
<td>1 gallon</td>
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<td>682-03-40</td>
<td>Fertilizer: Nitro 30-0-0</td>
<td>Supplier Code</td>
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<td>$15.00</td>
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<td>682-03-41</td>
<td>Fertilizer: Woodace 14-1-4-14</td>
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<td>682-03-42</td>
<td>Fertilizer: Silical SS</td>
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<td>682-03-43</td>
<td>Fertilizer: T-45 30-0-15</td>
<td>Supplier Code</td>
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<td>$12.00</td>
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<td>Purchase Order Number</td>
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<tr>
<td>682-03-44</td>
<td>12-0-0 Fe, priced per gal, 2x2.5 gal package</td>
<td>Fertilizer: Country Club</td>
<td>No Bids</td>
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<td>682-03-45</td>
<td>24-0-18, 50 pound bags</td>
<td>Fertilizer: Replenish 16-0-5, 50 lb. bags</td>
<td>No Bids</td>
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<td>682-03-46</td>
<td>24-0-18, 50 pound bags</td>
<td>Fertilizer: Replenish 16-1-5, 50 lb. bags</td>
<td>No Bids</td>
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<td>682-03-47</td>
<td>Supplier Product Code: Supplier Notes: 8-2-4 Sustane Med</td>
<td>Fertilizer: Replenish 8-2-2, 50 lb. bags</td>
<td>First Offer - $32.00 22.5 / bag</td>
<td>$720.00 Y</td>
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<tr>
<td>682-03-48</td>
<td>Supplier Product Code: Supplier Notes: 5-2-4 Fe Sustane</td>
<td>Fertilizer: Replenish 5-4-5, 50 lb. bags</td>
<td>First Offer - $26.00 78 / bag</td>
<td>$2,028.00 Y</td>
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<td>682-03-49</td>
<td>Supplier Product Code: Supplier Notes: Aquaduct Flex 44 lb bag</td>
<td>Fertilizer: Replenish 0-0-20, (50 lb. bags)</td>
<td>First Offer - $150.00 20.5 / bag</td>
<td>$3,075.00 Y</td>
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<tr>
<td>682-03-50</td>
<td>Supplier Product Code: Supplier Notes: 17-0-17 50%MU Andersons</td>
<td>Fertilizer: 18-9-19 Contec Greens Grade</td>
<td>First Offer - $52.80 20.5 / bag</td>
<td>$1,082.40 Y</td>
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<tr>
<td>682-03-51</td>
<td>Supplier Product Code: Supplier Notes: 25-01-15 75% polyon</td>
<td>Fertilizer: 25-01-15 75% polyon</td>
<td>No Bids</td>
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<tr>
<td>682-03-52</td>
<td>Supplier Product Code: Supplier Notes: 0-0-7 w/Dimension 1.5%</td>
<td>Fertilizer: 0-0-7 w/Dimension 1.5%</td>
<td>No Bids</td>
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<td>682-03-53</td>
<td>Supplier Product Code: Supplier Notes:</td>
<td>Fertilizer: 20-20-20</td>
<td>First Offer - $17.00 20 / bag</td>
<td>$340.00 Y</td>
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<td>Item #</td>
<td>Line Item</td>
<td>Notes</td>
<td>Unit Price</td>
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<td>682-04-01</td>
<td>Pesticides: 3-Way Broad Leaf Control (2,4-D MCPP Dicamba)</td>
<td>Supplier Product Code: Supplier Notes: Strike 3</td>
<td>First Offer - $23.75</td>
<td>25 / gallon</td>
<td>$593.75</td>
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<td>682-04-02</td>
<td>Pesticides: Acclaim Extra</td>
<td>Supplier Product Code:</td>
<td>First Offer - $583.75</td>
<td>1 / gallon</td>
<td>$583.75</td>
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<td>682-04-03</td>
<td>Pesticides: Acelpryn Insecticide</td>
<td>Supplier Product Code: Supplier Notes: $911.50 if purchasing 10 or more 0.5 gal containers</td>
<td>First Offer - $1,011.50</td>
<td>50 / half gallon</td>
<td>$50,575.00</td>
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<tr>
<td>682-04-04</td>
<td>Pesticides: Banner Maxx II, 2x1 gal/case</td>
<td>Supplier Product Code:</td>
<td>First Offer - $218.00</td>
<td>5 / gallon</td>
<td>$1,090.00</td>
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<tr>
<td>682-04-05</td>
<td>Pesticides: Banner Maxx II, 10 gal Linkpak</td>
<td>Supplier Product Code:</td>
<td>First Offer - $2,180.00</td>
<td>20 / gallon</td>
<td>$43,600.00</td>
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<tr>
<td>682-04-06</td>
<td>Pesticides: Banol Turf Fungicide</td>
<td>Supplier Product Code: Supplier Notes: 2.5 gal container</td>
<td>First Offer - $962.50</td>
<td>5 / container</td>
<td>$4,812.50</td>
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<td>682-04-07</td>
<td>Pesticides: Battle or Scimitar Insecticide, packaged in quart containers</td>
<td>Supplier Product Code:</td>
<td>First Offer - $138.70</td>
<td>6 / quart</td>
<td>$832.20</td>
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<td>682-04-08</td>
<td>Pesticides: Bayleton 50% W.S.P. Â½ 50x11oz. mini drum (water soluble package)</td>
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<td>No Bids</td>
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<td>682-04-09</td>
<td>Pesticides: Bayleton 50% W.S.P. Â½ 4x4x5.5 oz/case</td>
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<td>No Bids</td>
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<tr>
<td>682-04-10</td>
<td>Pesticides: Bayleton Flowable</td>
<td>Supplier Product Code: Supplier Notes: 2.5 gal price</td>
<td>First Offer - $1,385.00</td>
<td>5 / container</td>
<td>$6,925.00</td>
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<tr>
<td>682-04-11</td>
<td>Pesticides: Betesan 4</td>
<td>Supplier Product Code:</td>
<td>First Offer - $328.98</td>
<td>1 / container</td>
<td>$328.98</td>
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<tr>
<td>Item #</td>
<td>Supplier Product Code:</td>
<td>Supplier Notes:</td>
<td>First Offer -</td>
<td>Price</td>
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<tr>
<td>682-04-12</td>
<td>Pesticides: Chipco 26GT (2x2.5 gal/case)</td>
<td>Supplier Product Code:</td>
<td>$51.32</td>
<td>20 / gallon</td>
<td>$1,026.40</td>
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<td>682-04-13</td>
<td>Pesticides: Cleary's 3336 Fungicide</td>
<td>Supplier Product Code:</td>
<td>$147.48</td>
<td>1 / container</td>
<td>$147.48</td>
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<td>682-04-14</td>
<td>Pesticides: Cleary's Allude Fungicide</td>
<td>Supplier Product Code:</td>
<td>$43.00</td>
<td>1 / gallon</td>
<td>$43.00</td>
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<tr>
<td>682-04-15</td>
<td>Pesticides: Cleary's Endorse Fungicide (11 lbs./case)</td>
<td>Supplier Product Code:</td>
<td>$97.50</td>
<td>11 / pound</td>
<td>$1,072.50</td>
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<td>682-04-16</td>
<td>Pesticides: Compass</td>
<td>Supplier Product Code:</td>
<td>$450.01</td>
<td>1 / pound</td>
<td>$450.01</td>
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<tr>
<td>682-04-17</td>
<td>Pesticides: Concert fungicide packaged in 2.5 gal containers</td>
<td>Supplier Product Code:</td>
<td>$80.00</td>
<td>40 / gallon</td>
<td>$3,200.00</td>
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<td>682-04-18</td>
<td>Pesticides: Confront Herbicide</td>
<td>Supplier Product Code:</td>
<td>$125.00</td>
<td>5 / gallon</td>
<td>$625.00</td>
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<tr>
<td>682-04-19</td>
<td>Pesticides: Conserve</td>
<td>Supplier Product Code:</td>
<td>$760.00</td>
<td>8 / quart</td>
<td>$6,080.00</td>
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<tr>
<td>682-04-20</td>
<td>Pesticides: Cross Bow</td>
<td>Supplier Product Code:</td>
<td>No Bids</td>
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<tr>
<td>682-04-21</td>
<td>Pesticides: Crosscheck 0-0-7</td>
<td>Supplier Product Code:</td>
<td>No Bids</td>
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<tr>
<td>682-04-22</td>
<td>Pesticides: Cutless .33G</td>
<td>Supplier Product Code:</td>
<td>No Bids</td>
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<tr>
<td>682-04-23</td>
<td>Pesticides: Cutless 50W</td>
<td>Supplier Product Code:</td>
<td>$4,020.00</td>
<td>1 / package</td>
<td>$4,020.00</td>
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<td>682-04-24</td>
<td>Pesticides: Daconil</td>
<td>Supplier Product Code:</td>
<td>$81.00</td>
<td>20 / gallon</td>
<td>$1,620.00</td>
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<tr>
<td>Action</td>
<td>Supplier Product Code:</td>
<td>Supplier Notes:</td>
<td>First Offer</td>
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<td>682-04-25 Pesticides: Daconil Fungicide (20 lbs/case)</td>
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<td>682-04-26 Pesticides: Daconil Wetherstick, packaged in 2x2.5 gal/case</td>
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<td>682-04-27 Pesticides: Deltagard G</td>
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<td>682-04-28 Pesticides: Dimension 2EW</td>
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<td>682-04-29 Pesticides: Dimension Ultra WSB</td>
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<td>682-04-30 Pesticides: Dismiss Herbicide</td>
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<td>682-04-31 Pesticides: Drive XLR 8</td>
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<td>682-04-32 Pesticides: Chlortolophos</td>
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<td>682-04-33 Pesticides: Dylox 6.2% Granular (30 lb bag)</td>
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<td>682-04-34 Pesticides: Eagle 20 EW</td>
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<td>682-04-35 Pesticides: Emerald Fungicide (4.9 lbs/case)</td>
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<td>682-04-36 Pesticides: Emerald fungicide packaged in 8 oz packs</td>
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<td>682-04-37 Pesticides: Finale Herbicide two 2 1/2 gal containers</td>
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<td>682-04-38 Pesticides: Headway fungicide</td>
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<td>Item #</td>
<td>Description</td>
<td>Supplier Product Code:</td>
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<td>Qty/Unit</td>
<td>Price</td>
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<tr>
<td>682-04-39</td>
<td>Pesticides: Heritage Fungicide, 1 lb container</td>
<td>Supplier Product Code:</td>
<td>First Offer -</td>
<td>$325.00</td>
<td>1 / pound</td>
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<tr>
<td>682-04-40</td>
<td>Pesticides: Heritage Fungicide, 6 lb container</td>
<td>Supplier Product Code: Supplier Notes: 6 lb package</td>
<td>First Offer -</td>
<td>$325.00</td>
<td>1 / pound</td>
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<tr>
<td>682-04-41</td>
<td>Pesticides: Honor</td>
<td>Supplier Product Code:</td>
<td>First Offer -</td>
<td>$150.43</td>
<td>1 / pound</td>
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<tr>
<td>682-04-42</td>
<td>Pesticides: Insignia Fungicide (3x7.2 lb/case)</td>
<td>Supplier Product Code: Supplier Notes: Bidding 1 gal price for 2.5 gal container</td>
<td>First Offer -</td>
<td>$1,199.57</td>
<td>40 / pound</td>
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<tr>
<td>682-04-43</td>
<td>Pesticides: Instrata fungicide</td>
<td>Supplier Product Code: Supplier Notes: Price break at 25 gal ($138/gal)</td>
<td>First Offer -</td>
<td>$162.00</td>
<td>20 / gallon</td>
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<tr>
<td>682-04-44</td>
<td>Pesticides: Interface</td>
<td>Supplier Product Code: Supplier Notes: 2.5 gal container</td>
<td>First Offer -</td>
<td>$391.25</td>
<td>25 / container</td>
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<td>682-04-45</td>
<td>Pesticides: Lesco 18 Plus (2x2.5 gal/case)</td>
<td>Supplier Product Code: Supplier Notes: Chipco 26019</td>
<td>First Offer -</td>
<td>$51.32</td>
<td>1 / gallon</td>
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<tr>
<td>682-04-46</td>
<td>Pesticides: Lontrel herbicide</td>
<td>Supplier Product Code: Supplier Notes: priced per quart</td>
<td>First Offer -</td>
<td>$170.69</td>
<td>4 / quart</td>
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<td>682-04-47</td>
<td>Pesticides: Mallet .5 g</td>
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<tr>
<td>682-04-48</td>
<td>Pesticides: Manhandle Fungicide (44 lbs./case)</td>
<td>Supplier Product Code: Supplier Notes: Dithane 4x12 lb cases</td>
<td>First Offer -</td>
<td>$5.20</td>
<td>1 / pound</td>
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<tr>
<td>682-04-49</td>
<td>Pesticides: Medallion fungicide</td>
<td>Supplier Product Code: Supplier Notes: 2x1gal case</td>
<td>First Offer -</td>
<td>$1,140.00</td>
<td>1 / case</td>
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<tr>
<td>682-04-50</td>
<td>Pesticides: Meridian Insecticide</td>
<td>Supplier Product Code:</td>
<td>First Offer -</td>
<td>$1,917.60</td>
<td>1 / case</td>
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### Supplier Notes: 4x
102 oz case, 24 A

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<tr>
<th>Line Item</th>
<th>Pesticides: Millenium Ultra, 2x2.5 per case</th>
<th>Supplier Product Code:</th>
<th>First Offer -</th>
<th>$82.50</th>
<th>1 / gallon</th>
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<tbody>
<tr>
<td>682-04-51</td>
<td>Pesticides: Merit 0.5 G (30 lb bag)</td>
<td>Supplier Product Code:</td>
<td>First Offer -</td>
<td>$24.60</td>
<td>35 / bag</td>
<td>$861.00</td>
<td>Y</td>
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<td>682-04-52</td>
<td>Supplier Notes:</td>
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<td></td>
<td>Spectrin 30 lb bag</td>
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<td></td>
<td>Gypsum</td>
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<tr>
<td>682-04-53</td>
<td>Pesticides: Merit Insecticide packaged in 16-1.6 oz packets/case</td>
<td>Supplier Product Code:</td>
<td>First Offer -</td>
<td>$87.55</td>
<td>5 / case</td>
<td>$437.75</td>
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<td>682-04-54</td>
<td>Supplier Notes:</td>
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<tr>
<td></td>
<td>Criterion 16x1.6 oz packets/case</td>
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<tr>
<td>682-04-55</td>
<td>Pesticides: Merit Mini Drum 75wp</td>
<td></td>
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<tr>
<td>682-04-56</td>
<td>No Bids</td>
<td></td>
<td></td>
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<tr>
<td>682-04-57</td>
<td>Pesticides: Momentum Herbicide 2x2.5 case</td>
<td></td>
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<tr>
<td>682-04-58</td>
<td>No Bids</td>
<td></td>
<td></td>
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<tr>
<td>682-04-59</td>
<td>Pesticides: Oryzalin 4 Pro</td>
<td>Supplier Product Code:</td>
<td>First Offer -</td>
<td>$27,250.00</td>
<td>50 / gallon</td>
<td></td>
<td></td>
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<tr>
<td>682-04-60</td>
<td>Supplier Notes:</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Sureguard 64 oz bottle</td>
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<td></td>
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<tr>
<td></td>
<td>Dithane 4 x 12 lb case</td>
<td></td>
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<tr>
<td>682-04-61</td>
<td>Pesticides: Pentathlon D.F.</td>
<td>Supplier Product Code:</td>
<td>First Offer -</td>
<td>$290.00</td>
<td>5 / gallon</td>
<td>$1,450.00</td>
<td>Y</td>
</tr>
<tr>
<td>682-04-62</td>
<td>Supplier Notes:</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Dithane 4 x 12 lb case</td>
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</tr>
<tr>
<td>682-04-63</td>
<td>Pesticides: Primo Maxx 2x1 gal / case</td>
<td>Supplier Product Code:</td>
<td>First Offer -</td>
<td>$2,740.00</td>
<td>1 / gallon</td>
<td>$2,740.00</td>
<td>Y</td>
</tr>
<tr>
<td>682-04-64</td>
<td>Supplier Notes:</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td></td>
<td>Chipco Signature 44 lb case</td>
<td></td>
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<tr>
<td>682-04-65</td>
<td>Pesticides: Prodigy or Signature, Turf Fungicide</td>
<td>Supplier Product Code:</td>
<td>First Offer -</td>
<td>$1,220.00</td>
<td>40 / pound</td>
<td>$48,800.00</td>
<td>Y</td>
</tr>
<tr>
<td></td>
<td>Supplier Notes:</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Chipco Signature 44 lb case</td>
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<tr>
<td>682-04-66</td>
<td>Pesticides: Prosecutor</td>
<td>Supplier Product Code:</td>
<td>First Offer -</td>
<td>$15.43</td>
<td>87.5 / gallon</td>
<td>$1,350.125</td>
<td>Y</td>
</tr>
<tr>
<td></td>
<td>Supplier Notes:</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>WU Cornerstone Plus</td>
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<tr>
<td>682-04-67</td>
<td>Pesticides: Provaunt insecticide</td>
<td>Supplier Product Code:</td>
<td>First Offer -</td>
<td>$7.10</td>
<td>1 / ounce</td>
<td>$7.10</td>
<td>Y</td>
</tr>
<tr>
<td></td>
<td>Supplier Notes:</td>
<td></td>
<td></td>
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<td></td>
<td>Packaged as 120 oz container @ $852</td>
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<tr>
<td>Item Code</td>
<td>Supplier</td>
<td>Pesticides: Proxy</td>
<td>Supplier Product Code: Supplier Notes: 2.5 gal</td>
<td>First Offer -  $116.10</td>
<td>5 / container</td>
<td>$580.50</td>
<td>Y</td>
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<tr>
<td>682-04-64</td>
<td>Pesticides: Quinclorac</td>
<td>No Bids</td>
<td></td>
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</tr>
<tr>
<td>682-04-65</td>
<td>Pesticides: Reknon</td>
<td>Supplier Product Code: Supplier Notes: 2.5 gal</td>
<td></td>
<td>First Offer -  $557.50</td>
<td>20 / container</td>
<td>$11,150.00</td>
<td>Y</td>
</tr>
<tr>
<td>682-04-66</td>
<td>Pesticides: Roundup Pro</td>
<td>Supplier Product Code: Supplier Notes: WU Cornerstone Plus</td>
<td></td>
<td>First Offer -  $15.44</td>
<td>22 / gallon</td>
<td>$339.68</td>
<td>Y</td>
</tr>
<tr>
<td>682-04-67</td>
<td>Pesticides: Roundup Pro</td>
<td>Supplier Product Code: Supplier Notes: WU Cornerstone Plus</td>
<td></td>
<td>First Offer -  $14.92</td>
<td>30 / gallon</td>
<td>$447.60</td>
<td>Y</td>
</tr>
<tr>
<td>682-04-68</td>
<td>Pesticides: Roundup Pro Dry</td>
<td>No Bids</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>682-04-69</td>
<td>Pesticides: Roundup Quick Pro</td>
<td>Supplier Product Code:</td>
<td></td>
<td>First Offer -  $69.90</td>
<td>1 / container</td>
<td>$69.90</td>
<td>Y</td>
</tr>
<tr>
<td>682-04-70</td>
<td>Pesticides: Scythe Herbicide</td>
<td>No Bids</td>
<td></td>
<td></td>
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<tr>
<td>682-04-71</td>
<td>Pesticides: Sedgehammer Herbicide 1.33 oz. container</td>
<td>Supplier Product Code: Supplier Notes: Prosedge 1.3 lb oz bottle</td>
<td></td>
<td>First Offer -  $73.95</td>
<td>1 / each</td>
<td>$73.95</td>
<td>Y</td>
</tr>
<tr>
<td>682-04-72</td>
<td>Pesticides: Segway (39.2 oz. bottles)</td>
<td>Supplier Product Code:</td>
<td></td>
<td>First Offer -  $415.00</td>
<td>6 / bottle</td>
<td>$2,490.00</td>
<td>Y</td>
</tr>
<tr>
<td>682-04-73</td>
<td>Pesticides: Sevin</td>
<td>No Bids</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>682-04-74</td>
<td>Pesticides: Snap Shot 2.5G</td>
<td>Supplier Product Code: Supplier Notes: Available as 50 lb bag</td>
<td></td>
<td>First Offer -  $1.60</td>
<td>830 / pound</td>
<td>$1,328.00</td>
<td>Y</td>
</tr>
<tr>
<td>682-04-75</td>
<td>Pesticides: Speed zone herbicide</td>
<td>Supplier Product Code: Supplier Notes: 2.5 gal container</td>
<td></td>
<td>First Offer -  $191.20</td>
<td>10 / container</td>
<td>$1,912.00</td>
<td>Y</td>
</tr>
<tr>
<td>682-04-76</td>
<td>Pesticides: Subdue Maxx - 10 gal Linkpak</td>
<td>Supplier Product Code: Supplier Notes: 10 gal linkpack</td>
<td></td>
<td>First Offer -  $5,250.00</td>
<td>1 / gallon</td>
<td>$5,250.00</td>
<td>Y</td>
</tr>
<tr>
<td>682-04-77</td>
<td>Pesticides: Subdue Maxx 2x1 gal / case</td>
<td>Supplier Product Code: Supplier Notes: 1 gal</td>
<td></td>
<td>First Offer -  $538.00</td>
<td>4 / gallon</td>
<td>$2,152.00</td>
<td>Y</td>
</tr>
<tr>
<td>Item Code</td>
<td>Description</td>
<td>Supplier Product Code:</td>
<td>First Offer -</td>
<td>Unit Price</td>
<td>Unit #</td>
<td>Total Price</td>
<td>Present?</td>
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<tr>
<td>682-04-78</td>
<td>Pesticides: Sureguard</td>
<td>Supplier Product Code:</td>
<td>First Offer -</td>
<td>$545.00</td>
<td>36 / ounce</td>
<td>$19,620.00</td>
<td>Y</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplier Notes: Sureguard 64 oz bottle price</td>
<td></td>
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<tr>
<td>682-04-79</td>
<td>Pesticides: Surflan - 2 - 2 1/2 gal per case</td>
<td>Supplier Product Code:</td>
<td>First Offer -</td>
<td>$51.96</td>
<td>15 / gallon</td>
<td>$779.40</td>
<td>Y</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplier Notes: Surflan 2 x 2.5 gal case</td>
<td></td>
<td></td>
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<tr>
<td>682-04-80</td>
<td>Pesticides: Surge Herbicide</td>
<td>Supplier Product Code:</td>
<td>First Offer -</td>
<td>$280.25</td>
<td>8 / case</td>
<td>$2,242.00</td>
<td>Y</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplier Notes: 2 x 2.5 gal case</td>
<td></td>
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<tr>
<td>682-04-81</td>
<td>Pesticides: Talstar 1</td>
<td>Supplier Product Code:</td>
<td>First Offer -</td>
<td>$48.38</td>
<td>1 / gallon</td>
<td>$48.38</td>
<td>Y</td>
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<tr>
<td></td>
<td></td>
<td>Supplier Notes: 1 gal</td>
<td></td>
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<tr>
<td>682-04-82</td>
<td>Pesticides: Tartan 2.5 gal containers</td>
<td>Supplier Product Code:</td>
<td>First Offer -</td>
<td>$340.00</td>
<td>30 / gallon</td>
<td>$10,200.00</td>
<td>Y</td>
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<tr>
<td></td>
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<td>Supplier Notes: 5 gal</td>
<td></td>
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<tr>
<td>682-04-83</td>
<td>Pesticides: Tenacity</td>
<td>Supplier Product Code:</td>
<td>First Offer -</td>
<td>$775.00</td>
<td>2 / gallon</td>
<td>$1,550.00</td>
<td>Y</td>
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<td></td>
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<td>Supplier Notes: 2 gal</td>
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<tr>
<td>682-04-84</td>
<td>Pesticides: Torque</td>
<td>Supplier Product Code:</td>
<td>First Offer -</td>
<td>$105.00</td>
<td>10 / gallon</td>
<td>$1,050.00</td>
<td>Y</td>
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<td></td>
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<td>Supplier Notes: Tebuconazole 3.6 T and O 1 gal</td>
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<tr>
<td>682-04-85</td>
<td>Pesticides: Tourney fungicide</td>
<td>Supplier Product Code:</td>
<td>First Offer -</td>
<td>$138.55</td>
<td>1 / pound</td>
<td>$138.55</td>
<td>Y</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplier Notes: 5 lb container</td>
<td></td>
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<tr>
<td>682-04-86</td>
<td>Pesticides: Treffan, 5G (in 40 lb bags)</td>
<td>Supplier Product Code:</td>
<td>First Offer -</td>
<td>$1.94</td>
<td>656 / pound</td>
<td>$1,272.64</td>
<td>Y</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplier Notes: Freehand 50 lb</td>
<td></td>
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<tr>
<td>682-04-87</td>
<td>Pesticides: Trimec 992</td>
<td>Supplier Product Code:</td>
<td>First Offer -</td>
<td>$32.05</td>
<td>1 / gallon</td>
<td>$32.05</td>
<td>Y</td>
</tr>
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<td></td>
<td></td>
<td>Supplier Notes:</td>
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<tr>
<td>682-04-88</td>
<td>Pesticides: Trinity</td>
<td>Supplier Product Code:</td>
<td>First Offer -</td>
<td>$244.46</td>
<td>1 / gallon</td>
<td>$244.46</td>
<td>Y</td>
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<td>Supplier Notes:</td>
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<tr>
<td>682-04-89</td>
<td>Pesticides: Twosome Fungicide</td>
<td>Supplier Product Code:</td>
<td>No Bids</td>
<td></td>
<td></td>
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<td></td>
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<td>Supplier Notes:</td>
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<tr>
<td>682-04-90</td>
<td>Pesticides: Tree-age (Emamectin Benzoate)</td>
<td>Supplier Product Code:</td>
<td>No Bids</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td>Supplier Notes:</td>
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<tr>
<td>682-04-91</td>
<td>Pesticides: Tree-age</td>
<td>Supplier Product Code:</td>
<td>No Bids</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td>Supplier Notes:</td>
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</tr>
<tr>
<td>682-04-92</td>
<td>Pesticides: Imidacloprid - Bandit 2F</td>
<td>Supplier Product Code:</td>
<td>No Bids</td>
<td></td>
<td></td>
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<td></td>
<td>Supplier Notes:</td>
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</tr>
<tr>
<td>682-04-93</td>
<td>Pesticides: Imidacloprid - Bandit 2F</td>
<td>Supplier Product Code:</td>
<td>No Bids</td>
<td></td>
<td></td>
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<td></td>
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<td>Supplier Notes:</td>
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<tr>
<td>682-04-94</td>
<td>Pesticides: Safari 20SG</td>
<td>Supplier Product Code:</td>
<td>First Offer -</td>
<td>$110.00</td>
<td>1 / each</td>
<td>$110.00</td>
<td>Y</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplier Notes:</td>
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<tr>
<td>Item #</td>
<td>Description</td>
<td>Supplier Product Code:</td>
<td>Supplier Notes:</td>
<td>First Offer -</td>
<td>Unit</td>
<td>Price</td>
<td>Status</td>
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<tr>
<td>682-04-95</td>
<td>Pesticides: Insignia Fungicide</td>
<td>Supplier Product Code:</td>
<td>Supplier Notes:</td>
<td>First Offer -</td>
<td>1 / gallon</td>
<td>$1,648.22</td>
<td>Y</td>
</tr>
<tr>
<td>682-04-96</td>
<td>Pesticides: Flight Control</td>
<td>Supplier Product Code:</td>
<td>Supplier Notes:</td>
<td>First Offer -</td>
<td>1 / gallon</td>
<td>$1,648.22</td>
<td>Y</td>
</tr>
<tr>
<td>682-04-97</td>
<td>Pesticides: Legacy Growth Regulator</td>
<td>Supplier Product Code:</td>
<td>Supplier Notes:</td>
<td>First Offer -</td>
<td>1 / gallon</td>
<td>$1,648.22</td>
<td>Y</td>
</tr>
<tr>
<td>682-04-98</td>
<td>Pesticides: Prosecutor Pro</td>
<td>Supplier Product Code:</td>
<td>Supplier Notes:</td>
<td>First Offer -</td>
<td>17.5 / gallon</td>
<td>$270.025</td>
<td>Y</td>
</tr>
<tr>
<td>682-04-99</td>
<td>Pesticides: Compass Mini-Drum</td>
<td>Supplier Product Code:</td>
<td>Supplier Notes:</td>
<td>First Offer -</td>
<td>10 / drum</td>
<td>$4,900.60</td>
<td>Y</td>
</tr>
<tr>
<td>682-04-100</td>
<td>Pesticides: Daconil Ultrex</td>
<td>Supplier Product Code:</td>
<td>Supplier Notes:</td>
<td>First Offer -</td>
<td>10 / pound</td>
<td>$88.40</td>
<td>Y</td>
</tr>
<tr>
<td>682-04-101</td>
<td>Pesticides: Dimension Ultra 40WP</td>
<td>Supplier Product Code:</td>
<td>Supplier Notes:</td>
<td>First Offer -</td>
<td>10 / ounce</td>
<td>$31.50</td>
<td>Y</td>
</tr>
<tr>
<td>682-04-102</td>
<td>Pesticides: Eagle 20 EW per gallon</td>
<td>Supplier Product Code:</td>
<td>Supplier Notes:</td>
<td>First Offer -</td>
<td>1 / gallon</td>
<td>$5,700.00</td>
<td>Y</td>
</tr>
<tr>
<td>682-04-103</td>
<td>Pesticides: Medallion SC 2x1 gallon</td>
<td>Supplier Product Code:</td>
<td>Supplier Notes:</td>
<td>First Offer -</td>
<td>1 / gallon</td>
<td>$5,700.00</td>
<td>Y</td>
</tr>
<tr>
<td>682-04-104</td>
<td>Pesticides: Meridian 25WG 4x17 oz. case</td>
<td>Supplier Product Code:</td>
<td>Supplier Notes:</td>
<td>First Offer -</td>
<td>1 / case</td>
<td>$4,127.60</td>
<td>Y</td>
</tr>
<tr>
<td>682-04-105</td>
<td>Pesticides: Meridian 25WG 4x102 oz.</td>
<td>Supplier Product Code:</td>
<td>Supplier Notes:</td>
<td>First Offer -</td>
<td>1 / case</td>
<td>$20,400.00</td>
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<td>682-04-106</td>
<td>Pesticides: Signature 4x5.5 lb.</td>
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<td>4x5.5 lb case</td>
<td>$6,870.60</td>
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<td>Pesticides: Signature XTRA 4x5.5 lb.</td>
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<td>4x5.5 case</td>
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<td>10 / ounce</td>
<td>$78.60</td>
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<td>682-04-109</td>
<td>Pesticides: Tenacity per ounce</td>
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<td>10 / container</td>
<td>$78.50</td>
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<td>Code</td>
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<td>682-05-03</td>
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<td>Organics: Corn Gluten Meal 60% + Protein</td>
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<td>682-05-08</td>
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<td>682-05-10</td>
<td>Organics: Earthworks Cal-Vantage</td>
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<td>682-05-12</td>
<td>Organics: Redox Turf RX Supreme Flowable</td>
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<td>682-05-13</td>
<td>Organics: BTG (Bacillus Thuringiensis Galleriae)</td>
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Lot Total $482,508.68

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Lot Total $53,558.30
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<td>682-06-02</td>
<td>Miscellaneous: Athletic Field Marking Paint</td>
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<td>Miscellaneous: Dolomitic Limestone</td>
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<td>Miscellaneous: Turf Quick Dry (in bags) or</td>
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No Bids
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<td>682-06-18</td>
<td>Miscellaneous: Methylated Seed Oil 2.5 gallon</td>
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</tr>
<tr>
<td>682-06-22</td>
<td>Miscellaneous: Trakker Max - gallon</td>
<td>Supplier</td>
<td>No Bids</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>682-06-23</td>
<td>Miscellaneous: Ion Water Conditioner</td>
<td>Supplier</td>
<td>First Offer</td>
<td>$30.80</td>
<td>122 / gallon</td>
<td>$3,757.60</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplier</td>
<td>Product Code</td>
<td></td>
<td></td>
<td></td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplier</td>
<td>Supplier Notes</td>
<td>Gulfstream, priced per gal, 2x2.5 gal package</td>
<td></td>
<td></td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>682-06-24</td>
<td>Miscellaneous: Cascade Wetting Agent</td>
<td>Supplier</td>
<td>First Offer</td>
<td>$50.00</td>
<td>122 / pound</td>
<td>$6,100.00</td>
<td>Y</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Supplier</td>
<td>Product Code</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplier</td>
<td>Supplier Notes</td>
<td>WU Aquaflo Plus, priced per gal, 2x2.5 gal package</td>
<td></td>
<td></td>
<td>Y</td>
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<tr>
<td>682-06-25</td>
<td>Miscellaneous: MagnaPlex Wetting Agent</td>
<td>Supplier</td>
<td>First Offer</td>
<td>$93.99</td>
<td>122 / pound</td>
<td>$11,466.78</td>
<td>Y</td>
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<td></td>
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<td>Supplier</td>
<td>Product Code</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Supplier</td>
<td>Supplier Notes</td>
<td>WU Aquacare, priced per gal, 2x2.5 gal package</td>
<td></td>
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<td>Y</td>
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<tr>
<td>682-06-26</td>
<td>Miscellaneous: Cascade, granular, 50 lb. bag</td>
<td>Supplier</td>
<td>No Bids</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>682-06-27</td>
<td>Miscellaneous: Calcitic</td>
<td>Supplier</td>
<td>No Bids</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Item #</td>
<td>Line Item</td>
<td>Notes</td>
<td>Unit Price</td>
<td>Qty/Unit</td>
<td>Attr.</td>
<td>Docs</td>
<td></td>
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<tr>
<td>682-06-28</td>
<td>Miscellaneous: Revolution surfactant</td>
<td>Supplier Product Code: Supplier Notes: 2x2.5 gal</td>
<td>First Offer - $516.95</td>
<td>1 / case</td>
<td>$516.95</td>
<td>Y</td>
<td></td>
<td></td>
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<tr>
<td>682-06-29</td>
<td>Miscellaneous: Aqueduct SWDG</td>
<td>Supplier Product Code: Supplier Notes: Aqueduct Flex Granular</td>
<td>First Offer - $150.00</td>
<td>1 / bag</td>
<td>$150.00</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>682-06-30</td>
<td>Miscellaneous: Aqueduct L</td>
<td>Supplier Product Code:</td>
<td>First Offer - $68.79</td>
<td>1 / gallon</td>
<td>$68.79</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>682-06-31</td>
<td>Miscellaneous: Sixteen 90</td>
<td>Supplier Product Code:</td>
<td>First Offer - $346.60</td>
<td>1 / case</td>
<td>$346.60</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>682-06-32</td>
<td>Miscellaneous: Primer Select</td>
<td>Supplier Product Code:</td>
<td>First Offer - $344.90</td>
<td>1 / case</td>
<td>$344.90</td>
<td>Y</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Lot Total</td>
<td>$28,812.21</td>
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<table>
<thead>
<tr>
<th>Item #</th>
<th>Line Item</th>
<th>Notes</th>
<th>Unit Price</th>
<th>Qty/Unit</th>
<th>Attr.</th>
<th>Docs</th>
</tr>
</thead>
<tbody>
<tr>
<td>682-07-01</td>
<td>Herbicides:24-D Dicamba weed killer</td>
<td>Supplier Product Code:</td>
<td>No Bids</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>682-07-02</td>
<td>Herbicides: Garlon 3</td>
<td>Supplier Product Code:</td>
<td>First Offer - $70.00</td>
<td>3 / gallon</td>
<td>$210.00</td>
<td>Y</td>
</tr>
<tr>
<td>682-07-03</td>
<td>Herbicides: Garlon 4A</td>
<td>Supplier Product Code:</td>
<td>First Offer - $85.33</td>
<td>1 / gallon</td>
<td>$85.33</td>
<td>Y</td>
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<tr>
<td>682-07-04</td>
<td>Herbicides: Progress SC</td>
<td>Supplier Product Code: Supplier Notes: Prograss EC 2.5 gal</td>
<td>First Offer - $146.31</td>
<td>1 / gallon</td>
<td>$146.31</td>
<td>Y</td>
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<tr>
<td>682-07-05</td>
<td>Herbicides:Relegate 4E</td>
<td>Supplier Product Code:</td>
<td>No Bids</td>
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<tr>
<td>682-07-06</td>
<td>Herbicides:Relegate 4E 2.5 gallon</td>
<td>Supplier Product Code:</td>
<td>No Bids</td>
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<tr>
<td>682-07-07</td>
<td>Herbicides:Stonewall PQ</td>
<td>Supplier Product Code:</td>
<td>No Bids</td>
<td></td>
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<tr>
<td>682-07-08</td>
<td>Herbicides: Pylex 2.8Sc Herbicide</td>
<td>Supplier Product Code: Supplier Notes: 4 oz bottle</td>
<td>First Offer - $63.96</td>
<td>8 / ounce</td>
<td>$511.68</td>
<td>Y</td>
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<tr>
<td>Item #</td>
<td>Line Item</td>
<td>Supplier Product Code</td>
<td>Notes</td>
<td>Unit Price</td>
<td>Qty/Unit</td>
<td>Lot Total</td>
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<tr>
<td>682-07-09</td>
<td>Herbicides: Tower Herbicide</td>
<td>First Offer - $763.50 2.5 / gallon</td>
<td>$1,908.75</td>
<td>Yes</td>
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<td>682-07-10</td>
<td>Herbicides: Freehand 1.75G Herbicide</td>
<td>First Offer - $1.94 50 / pound</td>
<td>$97.00</td>
<td>Yes</td>
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<td>$2,959.07</td>
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<td>Item #</td>
<td>Line Item</td>
<td>Notes</td>
<td>Unit Price</td>
<td>Qty/Unit</td>
<td>Attch. Docs</td>
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<tr>
<td>682-08-01</td>
<td>25B:Nematode</td>
<td>No Bids</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>682-08-02</td>
<td>25B:A.D.I.O.S. Weed Control 25B</td>
<td>No Bids</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>682-08-03</td>
<td>25B:Matratec</td>
<td>No Bids</td>
<td></td>
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<tr>
<td>Item #</td>
<td>Line Item</td>
<td>Notes</td>
<td>Unit Price</td>
<td>Qty</td>
<td>Attch. Docs</td>
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</tr>
<tr>
<td>682-09-01</td>
<td>Organics with Biosolids:Milorganite or equal</td>
<td>No Bids</td>
<td></td>
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<tr>
<td>Item</td>
<td>Pesticides:3-Way Broad Leaf Control (2,4-D MCP P Dicamba)</td>
<td></td>
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<tr>
<td>Attachments</td>
<td>mp4G001.pdf</td>
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</tr>
</tbody>
</table>

WinField United

Capitol Region Council of Governments

BidSync

1/31/2019

p. 606
 SECTION 1: IDENTIFICATION

Product Name: Strike Three®
EPA Registration #: 14774-2
Product ID/Unity #: 1400393, 1400395, 1400397, 1400398
Common Name: Mixture of 2,4-D, Mecoprop-p (MCPP-p) and Dicamba
Chemical Description: Mixture of 2,4-D, Mecoprop-p (MCPP-p) and Dicamba
Recommended Uses: Agricultural herbicide – See product label for complete list of uses and use sites.
Restrictions for Use: See product label for information regarding restrictions on the use of this product.

Manufactured For:
WINFIELD SOLUTIONS, LLC
P. O. Box 64589
St. Paul, MN 55164-0589

MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs)
Non-Emergency Business Inquiries: 1-855-494-6343
Mon – Fri 8am – 5pm (Central Standard Time)

FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL:
CHEMTREC 1-800-424-9300 (24 hours)

 SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Dark brown liquid with a mild odor. Causes severe eye damage. Harmful if inhaled. Causes skin irritation. Acutely hazardous to the aquatic environment. Keep out of waterways.

POTENTIAL HEALTH EFFECTS:
Eyes: Causes irreversible eye damage.
Skin: Slightly toxic and slightly irritating based on toxicity studies.
Inhalation: Harmful if inhaled. Overexposure may cause upper respiratory tract irritation and symptoms similar to those from ingestion.
Ingestion: Harmful if swallowed. May cause nausea, vomiting, abdominal pain, decreased blood pressure, muscle weakness and muscle spasms.
Preexisting Conditions: Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.
Chronic Health Effects: Repeated overexposure to phenoxy herbicides may cause effects to liver, kidneys, blood chemistry and gross motor function. See Section 11 for additional information.

Carcinogenicity NTP: Not listed  IARC: Chlorophenoxy Herbicides  OSHA: Not listed – Group 2B

OSHA HCS 2012 CLASSIFICATION: Acute Inhalation Toxicity Category 4; Eye Irritation/Corrosion Category 1; Skin Irritation Category 2; Specific Target Organ Toxicity – Repeated Exposure Category 2

SIGNAL WORD: DANGER

HAZARD STATEMENTS:
Harmful if inhaled.
Causes serious eye damage.
Causes skin irritation.
May cause damage to organs (liver, kidneys) through prolonged or repeated exposure.
Percent of product with unknown toxicity: 0%

Continued on next page
PRECAUTIONARY STATEMENTS:
Prevention: Wash hands thoroughly after handling. Wear protective gloves and eye and face protection. Do not breathe mist, vapors, or spray. Use only outdoors or in a well-ventilated area.
Response: If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison control center (1-877-424-7452) or doctor for treatment advice if you feel unwell. If in eyes: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison control center (1-877-424-7452) or doctor for treatment advice. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. Get medical attention if you feel unwell.
Storage: See section 7 for storage information.
Disposal: Dispose of contents/container in accordance with Federal, state and local regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>% (wt)</th>
<th>CAS Reg. #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethylamine salt of 2,4-Dichlorophenoxyacetic acid</td>
<td>30.56%</td>
<td>2008-39-1</td>
</tr>
<tr>
<td>Dimethylamine salt of (+)–R-2-(2-Methyl-4-Chlorophenoxy) propionic acid</td>
<td>8.17%</td>
<td>66423-09-4</td>
</tr>
<tr>
<td>Dimethylamine salt of Dicamba (3,6-Dichloro-o-anisic acid)</td>
<td>2.77%</td>
<td>2300-66-5</td>
</tr>
</tbody>
</table>

*Ingredients not specifically listed are non-hazardous and/or are considered to be confidential business information under 29 CFR 1910.1200(i).

See Section 8 for exposure limits.

SECTION 4: FIRST AID MEASURES

Inhalation: Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs. If person is not breathing, call 911 or an ambulance.
Ingestion: Seek medical attention or call a poison control center immediately for treatment advice. Do not induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
Eyes: Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irritation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention immediately.
Skin: Remove contaminated clothing and wash before re-using. Flush skin with water and then wash with soap and water. Seek medical attention if irritation occurs.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use foam, dry chemical, or water spray
Special Fire Fighting Procedures: Wear NIOSH/MSHA approved self-contained breathing apparatus and full bunker gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Avoid breathing vapors; keep upwind. Minimize use of water to prevent environmental contamination.
Hazardous Combustion Products: Hydrogen chloride, carbon oxides and nitrogen oxides.
Unusual Fire and Explosion Hazards: If water is used to fight fire, contain runoff, using dikes to prevent contamination of water supplies. Dispose of fire control water later.
SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

Environmental Precautions: Extremely toxic to fish and water organisms. Keep spilled product from entering sewers and waterways.

Methods for Containment: Contain spilled product by diking area with sand or earth.

Methods for Clean-up: Cover spilled product with an inert absorbent material such as sand, vermiculite or other appropriate material. Vacuum, scoop or sweep up material and place in a container for disposal. Do not place spilled material back in original container.

Other Information: Spills of this product may require reporting under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as the product contains 2,4-Dichlorophenoxyacetic acid (2,4-D) with a reportable quantity (RQ) of 100 lbs. See Section 15 for additional information.

SECTION 7: HANDLING AND STORAGE

Handling: RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the pesticide product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Ensure adequate ventilation. Immediately clean up spills that occur during handling. Keep containers closed when not in use. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Wash outside of gloves before removing. Remove Personal Protective Equipment (PPE) immediately after handling this product.

Storage: Store in cool, dry areas away from children, feed and food products and sources of heat. Store in original container with lid tightly closed. If allowed to freeze, remix before using. See pesticide product label for additional storage information.

Minimum Storage Temperature: 32°F

Other Precautions: Consult Federal, state and local laws and regulations pertaining to storage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Exposure Guidelines</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>NIOSH REL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Component: Dimethylamine salt of 2,4-Dichlorophenoxyacetic acid</td>
<td>10 mg/m3 (TWA)</td>
<td>10 mg/m3 (TWA)</td>
<td></td>
</tr>
</tbody>
</table>

NOTE TO END USERS: PERSONAL PROTECTIVE EQUIPMENT (PPE) AND CLOTHING LISTED IN THIS SECTION IS FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD REFER TO THE PESTICIDE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT (PPE) AND CLOTHING.

Respiratory Protection: Not required when handled under normal, well-ventilated conditions. When handling in enclosed areas with inadequate ventilation, use a dust/mist filtering respirator approved for pesticides.

Engineering Controls: Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.

Protective Gloves: Wear chemical resistant gloves made of materials such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride (PVC) or viton.

Eye Protection: Wear chemical goggles or safety glasses and full-face shield. Contact lenses are not eye protective devices. An emergency eyewash or water supply should be readily accessible to the work area.

Other Protective Clothing or Equipment: Wear coveralls over a long sleeve shirt and long pants along with chemical resistant footwear plus socks to prevent skin exposure.

Work/Hygienic Practices: Never eat, drink, nor use tobacco in work areas. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.
### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical State:</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific Gravity (H₂O=1):</td>
<td>1.127 (typical)</td>
</tr>
<tr>
<td>Density (lbs/gallon):</td>
<td>9.4 lbs/gallon (typical)</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg):</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Density (Grain=1):</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility in Water (wt %):</td>
<td>Soluble</td>
</tr>
<tr>
<td>Boiling Point/Range:</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point/Freezing Point:</td>
<td>32°F (0°C)</td>
</tr>
<tr>
<td>Viscosity:</td>
<td>7.95 cP @ 21°C</td>
</tr>
<tr>
<td>pH:</td>
<td>6.0 – 8.0</td>
</tr>
<tr>
<td>Appearance and odor:</td>
<td>Dark brown liquid with a mild odor.</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>Not applicable due to aqueous formulation.</td>
</tr>
</tbody>
</table>

### SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** None known  
**Chemical Stability:** Product is stable at ambient temperature and pressure, under normal storage and handling conditions.  
**Possibility of Hazardous Reactions:** Will not occur.  
**Conditions to Avoid:** Avoid excessive heat. Do not store near heat or flame.  
**Incompatible Materials:** Strong oxidizing agents, bases and acids.  
**Hazardous Decomposition Products:** Under fire conditions, product may produce hydrogen chloride as well as oxides of carbon and nitrogen.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### ACUTE TOXICITY

- **Eye Effects:** Causes irreversible eye damage. Vapors and mist can cause irritation.  
- **Skin Effects:** Slight irritant (rabbit); Not a skin sensitizer; LD₅₀ >5,000 mg/kg (rabbit)  
- **Acute Inhalation Effects:** LC₅₀ >2.14 mg/L (rat)  
- **Acute Oral Effects:** LD₅₀ >1,697 mg/kg (rat)  
- **Specific Target Organ Toxicity:** Liver, kidneys

#### CHRONIC TOXICITY

- **Chronic Effects:** Repeated overexposure to phenoxy herbicides may cause effects to liver, kidneys, blood chemistry and gross motor function. Rare cases of peripheral nerve damage have been reported, but extensive animal studies have failed to substantiate these observations, even at high doses for prolonged periods. Repeated exposure to dicamba may cause liver changes or a decrease in body weight.  
- **Carcinogenicity:** The International Agency for Research on Cancer (IARC) lists exposure to chlorophenoxy herbicides as a class 2B carcinogen, the category for limited evidence for carcinogenicity in humans. However, more current 2,4-D lifetime feeding studies in rats and mice, as well as an MCPP lifetime feeding study in rats, did not show carcinogenic potential. The U.S. EPA has given 2,4-D and Dicamba a Class D classification (not classifiable as to human carcinogenicity).  
- **Mutagenicity:** There have been some positive and some negative studies, but weight of evidence is that neither 2,4-D nor MCPP is mutagenic. Animal studies with dicamba have not demonstrated mutagenic effects.  
- **Teratogenicity:** Studies in laboratory animals with 2,4-D and MCPP have shown decreased fetal body weights and delayed development in the offspring at doses toxic to mother animals. Animal tests with Dicamba have not demonstrated developmental effects.  
- **Reproductive Toxicity:** No components are anticipated to have an effect on the reproductive system.

#### POTENTIAL HEALTH EFFECTS:

- **Eyes:** Causes irreversible eye damage.  
- **Skin:** Slightly toxic and slightly irritating based on toxicity studies.  
- **Inhalation:** Harmful if inhaled. Overexposure may cause upper respiratory tract irritation and symptoms similar to those from ingestion.  
- **Ingestion:** Harmful if swallowed. May cause nausea, vomiting, abdominal pain, decreased blood pressure, muscle weakness and muscle spasms.
SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: This product is toxic to aquatic invertebrates.

ECOTOXICITY DATA:

Fish Acute and Prolonged Toxicity:
- 2,4-D Dimethylamine Salt: 96-hr LC50 Bluegill = 524 mg/l
- 96-hr LC50 Rainbow Trout = 250 mg/l
- Mecoprop-p: 96-hr LC50 Bluegill >100 mg/l (literature)
- Dicamba: 96-hr LC50 Bluegill = 135 mg/l
- 96-hr LC50 Rainbow Trout: 135 mg/l

Aquatic Invertebrate Acute Toxicity:
- 2,4-D Dimethylamine Salt: 48-hr EC50 Daphnia = 184 mg/l
- Mecoprop-p: 48-hr EC50 Daphnia >270 mg/l (literature)
- Dicamba: 48-hr EC50 Daphnia = 110 mg/l

Aquatic Plant Toxicity:
- Mecoprop-p: 72-hr EC50 Green Algae >270 mg/l (literature)

Bird Acute and Prolonged Toxicity:
- 2,4-D Dimethylamine Salt: Bobwhite Quail Oral LD50 = 500 mg/kg
- Mallard Duck 8-day Dietary LC50 > 5,620 ppm
- Dicamba: Bobwhite Quail 8-day Dietary LC50 >10,000 ppm
- Mallard Duck 8-day Dietary LC50 >10,000 ppm

Honeybee Toxicity:
- Not determined

ENVIRONMENTAL EFFECTS:

Soil Absorption/Mobility:
- Dicamba poorly binds to soil particles, is potentially mobile in the soil and highly soluble in water.

Persistence and degradability:
- In laboratory and field studies, 2,4-D DMA salt rapidly dissociated to parent acid in the environment. The typical half-life of the resultant 2,4-D acid ranged from a few days to a few weeks. Mecoprop-p DMA rapidly dissociates to parent mecoprop-p in the environment. In soil, mecoprop-p is microbially degraded with a typical half-life of approximately 11-15 days. Aerobic soil metabolism is the main degradative process for dicamba with a typical half-life of 2 weeks. Degradation is slower when low soil moisture limits microbe populations. In water, microbial degradation is the main route of dicamba dissipation. Aquatic hydrolysis, volatilization, adsorption to sediments, and bioconcentration are not expected to be significant.

Bioaccumulative Potential:
- Not determined

Other adverse effects:
- Not determined

SECTION 13: DISPOSAL CONSIDERATIONS

Waste:
- Dispose of in accordance with applicable Federal, state and local laws and regulations.

Container:
- Triple rinse and recycle the container or dispose of in accordance with Federal, state and local laws and regulations.
- See pesticide product label for full instructions on disposal.

RCRA Characteristics:
- It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

SECTION 14: TRANSPORT INFORMATION

DOT:
- (Ground) This product is not regulated by the U.S. Department of Transportation as a hazardous material for ground shipment in quantities of 41 gallons or less. For quantities of greater than 41 gallons:
- UN 3082, Environmentally hazardous substances, liquid, n.o.s. (2,4-D Salt), 9, III, RQ

IMDG:
- (Sea) Not Determined

IATA:
- (Air) Not Determined

TDG:
- (Canada) Not Determined
## SECTION 15: REGULATORY INFORMATION

### TSCA Inventory:
This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA regulated use.

### SARA Title III Information:
- **Section 302 - Extremely hazardous substances:** None listed
- **Section 311/312 – Hazard Categories:** Immediate (Acute); Delayed (Chronic)
- **Section 313** – The following chemicals are subject to the reporting requirements of Section 313 of Title III, Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372:
  - 2,4-Dichlorophenoxyacetic acid (CAS #: 94-75-7) 25.38% equivalent by weight in product
  - Mecoprop (CAS #: 93-65-2) 6.75% equivalent by weight in product
  - Dicamba (CAS #: 1918-00-9) 2.30% equivalent by weight in product

### CERCLA
This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):
- 2,4-Dichlorophenoxyacetic acid has an RQ of 100 lbs which is met with 42 gallons of product.
- Dicamba has an RQ of 1,000 lbs which is not met with any practical quantity of product.

### EPA Registration Information:
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. Following is the hazard information as required on the pesticide label:

**DANGER**
Corrosive. Causes irreversible eye damage. Harmful if swallowed. Do not get in eyes, or on clothing.

**California Proposition 65:** This product does not contain any chemicals known to the state of California to cause cancer and/or reproductive harm.

### U.S. State Worker and Community Right-To-Know (RTK) Information (CT, IL, MA, MN, NH, NJ, PA, RI):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>State(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Canadian Domestic Substances List:** Not determined

**WHMIS Classification:** This product is not approved for use in Canada. WHMIS classification is not determined.

## SECTION 16: OTHER

**Disclaimer:** The information presented herein is based on available data from reliable sources and is correct to the best of WinField Solutions' knowledge. WinField Solutions, LLC makes no warranty, express nor implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

**Revision Date:** February 10, 2015  
**Supersedes document dated:** January 17, 2012  
**Sections Revised:** All
<table>
<thead>
<tr>
<th>WinField United</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item: <strong>Pesticides:Pesticides:Acelepryn Insecticide</strong></td>
</tr>
<tr>
<td>Attachments</td>
</tr>
<tr>
<td>acelepryn g 03162015.pdf</td>
</tr>
</tbody>
</table>
1. PRODUCT IDENTIFICATION

Product identifier on label: ACELEPRYN® G

Product No.: A20375A

Use: Insecticide

Manufacturer: Syngenta Crop Protection, LLC
Post Office Box 18300
Greensboro, NC 27419

Manufacturer Phone: 1-800-334-9481

Emergency Phone: 1-800-888-8372

2. HAZARDS IDENTIFICATION

Classifications:
Specific Target Organ Toxicity: Respiratory Irritation Category 3
Carcinogenicity: Category 1A
Specific Target Organ Toxicity: Repeated Category 1

Signal Word (OSHA): Danger

Hazard Statements:
May cause respiratory irritation
May cause cancer
Causes damage to organs through prolonged or repeated exposure

Precautionary Statements:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust.
Wash hands and face 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.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If exposed or concerned: Get medical advice/attention.
Call a poison center, doctor or Syngenta if you feel unwell.
Store locked up.
Dispose of contents and container in accordance with local regulations.

Other Hazard Statements: May form combustible dust concentrations in air.
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Common Name</th>
<th>CAS Number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline Silica, Quartz and Cristobalite</td>
<td>Crystalline Silica, Quartz and Cristobalite</td>
<td>14808-60-7</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>Wood Dust</td>
<td>Wood Dust</td>
<td>Not Applicable</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>Other ingredients</td>
<td>Trade Secret</td>
<td>&lt;99.8%</td>
</tr>
<tr>
<td>Magnesite</td>
<td>Dolomitic Limestone</td>
<td>546-93-0</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>3-Bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-1H-pyrazole-5-carboxamide</td>
<td>Chlorantraniliprole</td>
<td>500008-45-7</td>
<td>0.2%</td>
</tr>
</tbody>
</table>

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

Have the product container, label or Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

Ingestion: If swallowed: Call Syngenta (800-888-8372), a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so after calling 800-888-8372 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

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 5 minutes, then continue rinsing eye. Call Syngenta (800-888-8372), a poison control center or doctor for 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 Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Inhalation: If inhaled: 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 Syngenta (800-888-8372), a poison control center or doctor for further treatment advice.

Most important symptoms/effects:
Respiratory irritation

Indication of immediate medical attention and special treatment needed:
There is no specific antidote if this product is ingested.
Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:
Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:
During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Special protective equipment and precautions for firefighters:
Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.
6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:
Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:
Avoid dust formation.

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Sweep up material and place in a compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

Precautions for safe handling:
Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Conditions for safe storage, including any incompatibilities:
Store locked up.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Occupational Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline Silica, Quartz and Cristobalite</td>
<td>10 mg/m³/(%SiO2+2) (respirable dust)</td>
<td>0.025 mg/m³ (respirable silica)</td>
<td>0.05 mg/m³ (respirable dust)</td>
<td>NIOSH</td>
</tr>
<tr>
<td>Wood Dust</td>
<td>Not Applicable</td>
<td>1 mg/m³ TWA</td>
<td>1 mg/m³ TWA</td>
<td>NIOSH</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Dolomitic Limestone</td>
<td>Not Established</td>
<td>Not Established</td>
<td>5 mg/m³ (Respirable), 10 mg/m³ (Total)</td>
<td>NIOSH</td>
</tr>
<tr>
<td>Chlorantraniliprole</td>
<td>Not Established</td>
<td>Not Established</td>
<td>10 mg/m³ TWA (Total): 5 mg/m³ TWA (Resp)</td>
<td>Manufacturer</td>
</tr>
</tbody>
</table>

Appropriate engineering controls:
Use effective engineering controls to comply with occupational exposure limits (if applicable).

Individual protection measures:

Ingestion:
Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.
ACELEPRYN® G

Date: 3/16/2015
Replaces: 11/2/2013

Eye Contact:
Where eye contact is likely use dust-proof chemical goggles.

Skin Contact:
Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.

Inhalation:
A particulate filter respirator may be necessary until effective engineering controls are installed to comply with occupational exposure limits. Use NIOSH certified respirator with any N, R, P or HE filter. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light brown granules
Odor: Slight
Odor Threshold: Not Available
pH: 6.7 (1% solution in H2O)
Melting point/freezing point: Not Available
Initial boiling point and boiling range: Not Available
Flash Point (Test Method): Not Available
Flammable Limits (% in Air): Not Available
Flammability: Not Available
Vapor Pressure: Chlorantraniliprole 1.6 x 10(-9) mm Hg @77° F (25° C)
Vapor Density: Not Available
Relative Density: 0.85 g/ml Bulk density (tapped)
Solubility (ies): Chlorantraniliprole 1.023 mg/l @ 68°F (20°C)
Partition coefficient: n-octanol/water: Not Available
Autoignition Temperature: Not Available
Decomposition Temperature: Not Available
Viscosity: Not Available
Other: None

10. STABILITY AND REACTIVITY

Reactivity: Not reactive.
Chemical stability: Stable under normal use and storage conditions.
Possibility of hazardous reactions: Will not occur.
Conditions to Avoid: Not Available
Incompatible materials: None known.
11. TOXICOLOGICAL INFORMATION

Health effects information
Likely routes of exposure: Dermal, Inhalation

Symptoms of exposure: Respiratory irritation

Delayed, immediate and chronic effects of exposure: Possible carcinogenicity, Respiratory irritation

Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

- **Ingestion:** Oral (LD50 Rat): > 5000 mg/kg body weight
- **Dermal:** Dermal (LD50 Rat): > 5000 mg/kg body weight
- **Inhalation:** Inhalation (LC50 Rat): > 6.2 mg/l air - 4 hours
- **Eye Contact:** Non-Irritating (Rabbit)
- **Skin Contact:** Non-Irritating (Rabbit)
- **Skin Sensitization:** Not a Sensitizer (Mouse)

Reproductive/Developmental Effects
Chlorantraniliprole: Did not show developmental or reproductive effects in animal experiments.

Chronic/Subchronic Toxicity Studies
Chlorantraniliprole: There were no adverse effects in subchronic feeding studies in rats and dogs. There was a decreased body weight gain at high doses in a 28-day feeding study in mice.

Carcinogenicity
Chlorantraniliprole: Chlorantraniliprole was not carcinogenic in either a 2-year study in rats or an 18-month study in mice.

### Chemical Name

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>NTP/IARC/OSHA Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline Silica, Quartz and Cristobalite</td>
<td>IARC 1; ACGIH A2</td>
</tr>
<tr>
<td>Wood Dust</td>
<td>IARC Group 1</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>No</td>
</tr>
<tr>
<td>Magnesite</td>
<td>No</td>
</tr>
<tr>
<td>3-Bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl][phenyl]-1-(3-chloro-2-pyridinyl)-1H-pyrazole-5-carboxamide</td>
<td>No</td>
</tr>
</tbody>
</table>

Other Toxicity Information
Not Available

Toxicity of Other Components
Crystalline Silica, Quartz and Cristobalite
Chronic inhalation exposure to crystalline silica is known to cause silicosis and pulmonary fibrosis in humans. Experimental animals exposed to crystalline silica developed respiratory tract cancers.
Dolomitic Limestone
Exposure to limestone dust may cause irritation to the moist mucous membranes of the nose, throat, and upper respiratory system. Limestone may contain trace amounts of free crystalline silica. Prolonged exposure to respirable free silica can aggravate other lung conditions and cause silicosis, a disabling and potentially fatal lung disease.

Other ingredients
Not Applicable

Wood Dust
Wood dust may cause mechanical irritation to the eye. Wood dust of certain species can elicit allergic contact dermatitis in sensitized individuals. Inhalation of wood dust may cause obstruction in nasal passages. May cause respiratory tract irritation.

Target Organs

Active Ingredients
Chlorantraniliprole: Not Applicable

Inert Ingredients
Crystalline Silica, Quartz and Cristobalite: Respiratory tract
Dolomitic Limestone: Respiratory Tract
Other ingredients: Not Applicable
Wood Dust: Eye, skin, nasal passages, respiratory tract

12. ECOLOGICAL INFORMATION

Eco-Acute Toxicity
Chlorantraniliprole:
Fish (Rainbow Trout) 96-hour LC50 12.6 mg/l
Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 0.0204 mg/l
Green Algae 72-hour ErC50 > 13 mg/l

Environmental Fate
Chlorantraniliprole:
The following information is for the active ingredient, chlorantraniliprole. According to the results of tests of biodegradability this product is not readily biodegradable.

13. DISPOSAL CONSIDERATIONS

Disposal:
Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable
Listed Waste: Not Applicable
14. TRANSPORT INFORMATION

DOT Classification
- Ground Transport - NAFTA
  Not regulated

Comments
- Water Transport - International
  Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Chlorantraniliprole), Marine Pollutant
  Hazard Class: Class 9
  Identification Number: UN 3082
  Packing Group: PG III

- Air Transport
  Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Chlorantraniliprole)
  Hazard Class: Class 9
  Identification Number: UN 3082
  Packing Group: PG III

15. REGULATORY INFORMATION

Pesticide Registration:
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. Following is the hazard information as required on the pesticide label:

- Not Applicable: Keep out of reach of children.

EPA Registration Number(s):
100-1500

EPCRA SARA Title III Classification:
- Section 311/312 Hazard Classes: Acute Health Hazard
- Section 313 Toxic Chemicals: None

CERCLA/SARA 304 Reportable Quantity (RQ):
- Not Applicable

RCRA Hazardous Waste Classification (40 CFR 261):
- Not Applicable

TSCA Status:
- Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION
ACELEPRYN® G

Date: 3/16/2015
Replaces: 11/2/2013

NFPA Hazard Ratings

| Health: | 1 |
| Flammability: | 1 |
| Instability: | 0 |

HMIS Hazard Ratings

| Health: | 2* |
| Flammability: | 1 |
| Reactivity: | 0 |

Syngenta Hazard Category: C

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date: 6/25/2013
Revision Date: 3/16/2015
Section(s) Revised: 1-16

Replaces: 11/2/2013

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.
<table>
<thead>
<tr>
<th>WinField United</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Item:</strong> Pesticides: Banner Maxx II, 2x1 gal/case</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Attachments</th>
</tr>
</thead>
<tbody>
<tr>
<td>banner-maxx-sds.pdf</td>
</tr>
</tbody>
</table>
1. PRODUCT IDENTIFICATION

Product identifier on label: **BANNER MAXX®**
Product No.: A6780D
Use: Fungicide
Manufacturer: Syngenta Crop Protection, LLC
Post Office Box 18300
Greensboro NC 27419
Manufacturer Phone: 1-800-334-9481
Emergency Phone: 1-800-888-8372

2. HAZARDS IDENTIFICATION

Classifications:
- Specific Target Organ Toxicity: Repeated Category 2
- Specific Target Organ Toxicity: Respiratory Irritation Category 3
- Flammable Liquid: Category 4
- Eye Damage/Irritation: Category 2B

Signal Word (OSHA): Warning

Hazard Statements:
- Combustible liquid
- Causes eye irritation
- May cause respiratory irritation
- May cause damage to organs through prolonged or repeated exposure

Precautionary Statements:
- Wash hands and face thoroughly after handling.
- 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.
- Keep away from heat, sparks, open flames, hot surfaces. No smoking.
- Do not breathe mist, vapors, spray.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves, protective clothing, eye protection.
- If inhaled: Remove person to fresh air and keep comfortable for breathing.
- Call a poison center, doctor or Syngenta if you feel unwell.
- In case of fire: Use dry chemical, foam or CO2 for extinction.
- Store in a well-ventilated place. Keep cool.

Page 1 of 8
BANNER MAXX®

Date: 7/6/2015
Replaces: 3/17/2015

Store locked up.
Dispose of contents and container in accordance with local regulations.

Other Hazard Statements: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Common Name</th>
<th>CAS Number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetrahydrofurfuryl Alcohol (THFA)</td>
<td>Tetrahydrofurfuryl Alcohol (THFA)</td>
<td>97-99-4</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>Other ingredients</td>
<td>Trade Secret</td>
<td>&lt;85.7%</td>
</tr>
<tr>
<td>1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole</td>
<td>Propiconazole</td>
<td>60207-90-1</td>
<td>14.3%</td>
</tr>
</tbody>
</table>

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

Have the product container, label or Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

Ingestion: If swallowed: Call Syngenta (800-888-8372), a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so after calling 800-888-8372 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

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 5 minutes, then continue rinsing eye. Call Syngenta (800-888-8372), a poison control center or doctor for 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 Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Inhalation: If inhaled: 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 Syngenta (800-888-8372), a poison control center or doctor for further treatment advice.

Most important symptoms/effects:
- Eye irritation
- Respiratory irritation

Indication of immediate medical attention and special treatment needed:
- There is no specific antidote if this product is ingested.
- Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:
Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:
- Combustible liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point. Heavy vapors can flow along surfaces to distant ignition sources and flash back.
- During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.
Special protective equipment and precautions for firefighters:
Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:
Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:
Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

Precautions for safe handling:
Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Conditions for safe storage, including any incompatibilities:
Store locked up.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Occupational Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetrahydrofurfuryl Alcohol (THFA)</td>
<td>Not Established</td>
<td>Not Established</td>
<td>0.5 ppm TWA</td>
<td>AIHA</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Propiconazole</td>
<td>Not Established</td>
<td>Not Established</td>
<td>5 mg/m³ TWA</td>
<td>Syngenta</td>
</tr>
</tbody>
</table>

Appropriate engineering controls:
Use effective engineering controls to comply with occupational exposure limits (if applicable).

Individual protection measures:

Ingestion:
Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact:
Where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Skin Contact:
Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.

Inhalation:
A combination particulate/organic vapor respirator should be used until effective engineering controls are installed to comply with occupational exposure limits, or until exposure limits are established. Use a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE filter.

Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow to orange clear liquid
Odor: Aromatic solvent
Odor Threshold: Not Available
pH: 6 - 8 (1% solution in H2O)
Melting point/freezing point: Not Applicable
Initial boiling point and boiling range: 331°F (166°C)
Flash Point (Test Method): 181°F (Setaflash)
Flammable Limits (% in Air): Not Available
Flammability: Combustible liquid
Vapor Pressure: Propiconazole 4.2 x 10(-7) mmHg @ 77°F (25°C)
Vapor Density: Not Available
Relative Density: 1.09 g/cc @ 68°F (20°C) ; 9.09 lb/gal @ 68°F (20°C)
Solubility (ies): Propiconazole 0.1 g/l @ 68°F (20°C)
Partition coefficient: n-octanol/water: Not Available
Autoignition Temperature: Not Available
Decomposition Temperature: Not Available
Viscosity: Not Available
Other: None

10. STABILITY AND REACTIVITY

Reactivity: Not reactive.
Chemical stability: Stable under normal use and storage conditions.
Possibility of hazardous reactions: Will not occur.
Conditions to Avoid: Flame, heat, ignition sources.
Incompatible materials: None known.
Hazardous Decomposition Products: None known.
11. TOXICOLOGICAL INFORMATION

Health effects information

Likely routes of exposure: Dermal, Inhalation

Symptoms of exposure: Eye irritation, Respiratory irritation

Delayed, immediate and chronic effects of exposure: Eye irritation, Respiratory irritation

Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

- **Ingestion:** Oral (LD50 Female Rat): 4340 mg/kg body weight
- **Dermal:** Dermal (LD50 Rat): > 2020 mg/kg body weight
- **Inhalation:** Inhalation (LC50 Rat): > 2.6 mg/l air - 4 hours
- **Eye Contact:** Moderately Irritating (Rabbit)
- **Skin Contact:** Non-Irritating (Rabbit)
- **Skin Sensitization:** Not a Sensitizer (Guinea Pig)

Reproductive/Developmental Effects

Propiconazole: None observed.

Chronic/Subchronic Toxicity Studies

Propiconazole: None observed.

Carcinogenicity

Propiconazole: Increased hepatocellular adenomas, combined adenomas/carcinomas, and hepatocellular carcinomas observed in male mice in a chronic oral feeding study. However, animals in the high dose group for this study showed excessive toxicity; furthermore, the high dose exceeded the Maximum Tolerated Dose determined in the 90-day range finding study. No treatment-related tumors were seen in female mice in this mouse chronic feeding study. No tumors were noted in a chronic rat study.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>NTP/IARC/OSHA Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetrahydrofurfuryl Alcohol (THFA)</td>
<td>No</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>No</td>
</tr>
<tr>
<td>1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole</td>
<td>No</td>
</tr>
</tbody>
</table>

Other Toxicity Information

- None

Toxicity of Other Components

Other ingredients

- Not Applicable

Tetrahydrofurfuryl Alcohol (THFA)

May be harmful if swallowed. Causes respiratory tract irritation. Causes skin irritation. May cause digestive tract irritation. Causes severe eye irritation. Inhalation overexposure may cause dizziness, incoordination and unconsciousness. Chronic overexposure may affect the kidney.

Target Organs
12. ECOLOGICAL INFORMATION

Eco-Acute Toxicity
Propiconazole:
- Fish (Rainbow Trout) 96-hour LC50 0.83 ppm
- Invertebrate (Water Flea) 48-hour EC50 3.2 ppm
- Green Algae 9-day EC50 0.72 ppm
- Bird (Mallard Duck) 14-day LD50 2510 mg/kg

Environmental Fate
Propiconazole:
The information presented here is for the active ingredient, propiconazole.

13. DISPOSAL CONSIDERATIONS

Disposal:
Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable
Listed Waste: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification
Ground Transport - NAFTA
Not regulated
Bulk (> 119 gallons):
Proper Shipping Name: Combustible Liquid, N.O.S. (Tetrahydrofurfuryl Alcohol)
Hazard Class: Combustible Liquid
Identification Number: NA 1993
Packing Group: PG III

Comments
Water Transport - International
Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Propiconazole), Marine Pollutant
Hazard Class: Class 9
Identification Number: UN 3082
Packing Group: PG III

Air Transport
Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Propiconazole)
Hazard Class: Class 9
Identification Number: UN 3082
Packing Group: PG III
15. REGULATORY INFORMATION

Pesticide Registration:
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. Following is the hazard information as required on the pesticide label:

Warning: Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Harmful if swallowed, inhaled, or absorbed through the skin. Avoid contact with eyes, skin or clothing. Avoid breathing vapor or spray mist.

EPA Registration Number(s):
100-741

EPCRA SARA Title III Classification:
Section 311/312 Hazard Classes: Acute Health Hazard
   Fire Hazard
Section 313 Toxic Chemicals: Propiconazole 14.3% (CAS No. 60207-90-1)

CERCLA/SARA 304 Reportable Quantity (RQ):
None

RCRA Hazardous Waste Classification (40 CFR 261):
Not Applicable

TSCA Status:
Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

NFPA Hazard Ratings

<table>
<thead>
<tr>
<th>Property</th>
<th>Number</th>
<th>HMIS Hazard Ratings</th>
</tr>
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<tbody>
<tr>
<td>Health</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Flammability</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Instability</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Syngenta Hazard Category: B,S

For non-emergency questions about this product call:
1-800-334-9481

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.
<table>
<thead>
<tr>
<th><strong>Date:</strong></th>
<th>7/6/2015</th>
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</thead>
<tbody>
<tr>
<td><strong>Replaces:</strong></td>
<td>3/17/2015</td>
</tr>
<tr>
<td>WinField United</td>
<td></td>
</tr>
<tr>
<td>----------------</td>
<td></td>
</tr>
<tr>
<td><strong>Item:</strong> Pesticides:Pesticides:Pesticides:Pesticides:Banol Turf Fungicide</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Attachments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Banol_Fungicide.pdf</td>
</tr>
</tbody>
</table>
SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

<table>
<thead>
<tr>
<th>Trade name</th>
<th>BANOL® FUNGICIDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product code (UVP)</td>
<td>05933765</td>
</tr>
<tr>
<td>SDS Number</td>
<td>102000000806</td>
</tr>
<tr>
<td>EPA Registration No.</td>
<td>432-942</td>
</tr>
</tbody>
</table>

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

Use: Fungicide
Restrictions on use: See product label for restrictions.

Information on manufacturer

Bayer Environmental Science
2 T.W. Alexander Drive
Research Triangle PK, NC 27709
United States

Emergency telephone no.

All Emergencies, 24hr/7 days: 1-800-334-7577 (24 hours/day)

Product Information

Telephone No.: 1-800-331-2867

SDS Information or Request: SDSINFO.BCS-NA@bayer.com

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200

Skin sensitisation: Category 1B
Acute toxicity (Oral): Category 4

Signal word: Warning

Hazard statements

May cause an allergic skin reaction.
Harmful if swallowed.

Precautionary statements

Avoid breathing mist and spray.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instructions on this label). Wash contaminated clothing before reuse. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Dispose of contents/container in accordance with local regulation.

Other hazards
No other hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Component Name</th>
<th>CAS-No.</th>
<th>Average % by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propamocarb hydrochloride</td>
<td>25606-41-1</td>
<td>66.50</td>
</tr>
</tbody>
</table>

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice
When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

Inhalation
Move 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 physician or poison control center immediately.

Skin contact
Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.

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 physician or poison control center immediately.

Ingestion
Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

Most important symptoms and effects, both acute and delayed

Symptoms
The following symptoms may occur: Lethargy, Ataxia, Spasm

Indication of any immediate medical attention and special treatment needed

Risks
This product, although being a carbamate, is NOT a cholinesterase inhibitor.
Treatment
There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. Gastric lavage is not normally required. However, if a significant amount (more than a mouthful) has been ingested, administer activated charcoal and sodium sulphate.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media
Suitable
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable
High volume water jet

Special hazards arising from the substance or mixture
In the event of fire the following may be released: Carbon monoxide (CO), Hydrogen chloride (HCl), Nitrogen oxides (NOx)

Advice for firefighters
Special protective equipment for fire-fighters
Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

Further information
Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

Flash point
> 100 °C
No flash point - Determination conducted up to the boiling point.

Autoignition temperature
The product is not self-ignitable.

Lower explosion limit
no data available

Upper explosion limit
no data available

Explosivity
not applicable
SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Precautions**
Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

**Methods and materials for containment and cleaning up**

**Methods for cleaning up**
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations. Contaminated soil may have to be removed and disposed.

**Additional advice**
Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.

**Reference to other sections**
Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling**
Handle and open container in a manner as to prevent spillage. Use only in area provided with appropriate exhaust ventilation.

**Hygiene measures**
Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

**Conditions for safe storage, including any incompatibilities**

**Requirements for storage areas and containers**
Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

**Advice on common storage**
Keep away from food, drink and animal feedingstuffs.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propamocarb hydrochloride</td>
<td>25606-41-1</td>
<td>1.1 mg/m3 (TWA)</td>
<td></td>
<td>OES BCS*</td>
</tr>
</tbody>
</table>
Exposure controls

Personal protective equipment
In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection
When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

Hand protection
Chemical resistant gloves made of waterproof material such as polyethylene or polyvinyl chloride

Eye protection
Tightly fitting safety goggles

Skin and body protection
Wear long-sleeved shirt and long pants and shoes plus socks.

General protective measures
Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
colourless to light yellow

Physical State
liquid, clear

Odor
slightly perceptible

Odour Threshold
no data available

pH
2.0 - 4.0 (100 %) at 23 °C

Vapor Pressure
no data available

Vapor Density (Air = 1)
no data available

Density
c. 1.09 g/cm³ at 20 °C

Evaporation rate
no data available
Boiling Point: ca. 100 °C / 212 °F
Melting / Freezing Point: no data available
Water solubility: completely miscible
Minimum Ignition Energy: not applicable
Decomposition temperature: not applicable
Partition coefficient: n-octanol/water: no data available
Viscosity: 34.23 mPa.s at 20 °C
Flash point: > 100 °C
No flash point - Determination conducted up to the boiling point.
Autoignition temperature: The product is not self-ignitable.
Lower explosion limit: no data available
Upper explosion limit: no data available
Explosivity: not applicable
Other information: Further safety related physical-chemical data are not known.

SECTION 10: STABILITY AND REACTIVITY

Reactivity
Thermal decomposition: not applicable

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No hazardous reactions when stored and handled according to prescribed instructions.

Conditions to avoid: Extremes of temperature and direct sunlight.

Incompatible materials: no data available
Hazardous decomposition products
No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes
Eye contact, Ingestion, Skin Absorption, Inhalation

Immediate Effects
Eye
Moderate eye irritation.

Skin
Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Harmful if absorbed through skin.

Ingestion
Harmful if swallowed.

Information on toxicological effects

Acute oral toxicity
LD50 (male rat) 2,900 mg/kg
LD50 (female rat) 2,000 mg/kg

Acute inhalation toxicity
LC50 (male/female combined rat) > 7.9 mg/l
Exposure time: 4 h
Determined in the form of liquid aerosol.

LC50 (male/female combined rat) > 31.6 mg/l
Exposure time: 1 h
Determined in the form of liquid aerosol.
Extrapolated from the 4 hr LC50.

Acute dermal toxicity
LD50 (male/female combined rat) > 3,000 mg/kg

Skin irritation
Slight irritation (rabbit)

Eye irritation
Mild eye irritation. (rabbit)

Sensitisation
Sensitising
OECD Test Guideline 429, local lymph node assay (LLNA)

Assessment repeated dose toxicity
Propamocarb hydrochloride did not cause specific target organ toxicity in experimental animal studies.

Assessment Mutagenicity
Propamocarb hydrochloride was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment Carcinogenicity
Propamocarb hydrochloride was not carcinogenic in lifetime feeding studies in rats and mice.

ACGIH
None.

NTP
None.

IARC
None.

OSHA
None.

**Assessment toxicity to reproduction**
Propamocarb hydrochloride did not cause reproductive toxicity in a two-generation study in rats.

**Assessment developmental toxicity**
Propamocarb hydrochloride caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Propamocarb hydrochloride are related to maternal toxicity.

**Further information**
Only acute toxicity studies have been performed on the formulated product. The non-acute information pertains to the active ingredient(s).

---

**SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity to fish**
LC50 (Lepomis macrochirus (Bluegill sunfish)) > 92 mg/l static test; Exposure time: 96 h
The value mentioned relates to the active ingredient propamocarb-hydrochloride.

**Toxicity to aquatic invertebrates**
EC50 (Water flea (Daphnia magna)) > 106 mg/l static test; Exposure time: 48 h
The value mentioned relates to the active ingredient propamocarb-hydrochloride.

**Toxicity to aquatic plants**
IC50 (Pseudokirchneriella subcapitata) > 85 mg/l Exposure time: 72 h
The value mentioned relates to the active ingredient propamocarb-hydrochloride.

**Biodegradability**
Propamocarb hydrochloride: rapidly biodegradable

**Koc**
Propamocarb hydrochloride: Koc:719

**Bioaccumulation**
Propamocarb hydrochloride: Does not bioaccumulate.

**Mobility in soil**
Propamocarb hydrochloride: Slightly mobile in soils
Additional ecological information

No other effects to be mentioned.

Environmental precautions

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Do not apply when weather conditions favor runoff or drift. Apply this product as specified on the label.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product

Do not contaminate water, food, or feed by disposal. Dispose in accordance with all local, state/provincial and federal regulations. Follow container label instructions for disposal of wastes generated during use in compliance with the product label.

Contaminated packaging

Do not re-use empty containers. Triple rinse containers. Puncture container to avoid re-use. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. If burned, stay out of smoke. Follow advice on product label and/or leaflet.

RCRA Information

Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

SECTION 14: TRANSPORT INFORMATION

According to national and international transport regulations this material is not classified as dangerous goods / hazardous material.

Freight Classification: INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN POISON

SECTION 15: REGULATORY INFORMATION

EPA Registration No. 432-942
US Federal Regulations
TSCA list
None.
US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)
None.
SARA Title III - Section 302 - Notification and Information
None.
SARA Title III - Section 313 - Toxic Chemical Release Reporting
None.

US States Regulatory Reporting
CA Prop65
This product does not contain any substances known to the State of California to cause cancer.
This product does not contain any substances known to the State of California to cause reproductive harm.

US State Right-To-Know Ingredients
None.

Canadian Regulations
Canadian Domestic Substance List
None.

Environmental
CERCLA
None.
Clean Water Section 307 Priority Pollutants
None.
Safe Drinking Water Act Maximum Contaminant Levels
None.

International Regulations
European Inventory of Existing Commercial Substances (EINECS)
Propamocarb hydrochloride 25606-41-1

EPA/FIFRA Information:
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. Following is the hazard information required on the pesticide label:

Signal word: Caution!

Hazard statements: Harmful if swallowed or absorbed through skin.
Moderate eye irritation.
Avoid contact with skin, eyes and clothing.
Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

SECTION 16: OTHER INFORMATION
NFPA 704 (National Fire Protection Association):
Health - 1    Flammability - 1    Instability - 0    Others - none

Health - 1    Flammability - 1    Physical Hazard - 0    PPE -
0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason for Revision: Revised according to the current OSHA Hazard Communication Standard (29CFR1910.1200)

Revision Date: 01/16/2014

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.
<table>
<thead>
<tr>
<th>WinField United</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Item:</strong> Pesticides:Battle or Scimitar Insecticide, packaged in quart containers</td>
</tr>
</tbody>
</table>

**Attachments**

- Scimitar_GC_SDS.pdf
1. PRODUCT IDENTIFICATION

Product identifier on label: SCIMITAR® GC
Product No.: A12690A
Use: Insecticide
Manufacturer: Syngenta Crop Protection, LLC
Post Office Box 18300
Greensboro NC 27419
Manufacturer Phone: 1-800-334-9481
Emergency Phone: 1-800-888-8372

2. HAZARDS IDENTIFICATION

Classifications:
Inhalation: Category 4
Skin Sensitizer: Category 1B
Specific Target Organ Toxicity: Repeated Category 2
Specific Target Organ Toxicity: Drowsiness Category 3
Specific Target Organ Toxicity: Respiratory Irritation Category 3

Signal Word (OSHA): Warning

Hazard Statements:
May cause an allergic skin reaction
Harmful if inhaled
May cause respiratory irritation
May cause drowsiness or dizziness
May cause damage to organs through prolonged or repeated exposure

Precautionary Statements:
Do not breathe mist, vapors, spray.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves, protective clothing, eye protection.
If on skin: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Call a poison center, doctor or Syngenta if you feel unwell.
See Section 4 First Aid Measures.
Wash contaminated clothing before reuse.
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Common Name</th>
<th>CAS Number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylene</td>
<td>Xylene</td>
<td>1330-20-7</td>
<td>&lt;1%</td>
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<tr>
<td>1,2,4-Trimethylbenzene</td>
<td>1,2,4-Trimethylbenzene</td>
<td>95-63-6</td>
<td>&lt;2.5%</td>
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<tr>
<td>Cumene</td>
<td>Cumene</td>
<td>98-82-8</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>1,2-Propanediol</td>
<td>Propylene Glycol</td>
<td>57-55-6</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>Petroleum Solvent</td>
<td>Petroleum Solvent</td>
<td>64742-95-6</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>Other ingredients</td>
<td>Trade Secret</td>
<td>&gt;85.8%</td>
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<tr>
<td>[1a(S*),3a(Z)]-cyano(3-phenoxyphenyl)methyl-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate</td>
<td>Lambda-Cyhalothrin</td>
<td>91465-08-6</td>
<td>9.7%</td>
</tr>
</tbody>
</table>

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

Have the product container, label or Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

Ingestion: If swallowed: Call Syngenta (800-888-8372), a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so after calling 800-888-8372 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

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 5 minutes, then continue rinsing eye. Call Syngenta (800-888-8372), a poison control center or doctor for 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 Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Inhalation: If inhaled: 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 Syngenta (800-888-8372), a poison control center or doctor for further treatment advice.

Most important symptoms/effects:
- Allergic skin reaction
- Drowsiness or dizziness
- Respiratory irritation

Indication of immediate medical attention and special treatment needed:
- There is no specific antidote if this product is ingested.
- Treat symptomatically.
- Persons suffering a temporary allergic reaction may respond to treatment with antihistamines or steroid creams and/or systemic steroids.
SCIMITAR® GC

Skin contact paresthesia effects (itching, tingling, burning or numbness) are transient, lasting up to 24 hours. Treat symptomatically.
Contains petroleum distillate - vomiting may cause aspiration pneumonia.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:
Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:
During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Special protective equipment and precautions for firefighters:
Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:
Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:
Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions in Protective Equipment Section. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

Precautions for safe handling:
Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Conditions for safe storage, including any incompatibilities:
Store locked up.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Occupational Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylene</td>
<td>100 ppm TWA</td>
<td>100 ppm TWA; 150 ppm STEL</td>
<td>100 ppm TWA</td>
<td>NIOSH</td>
</tr>
<tr>
<td>1,2,4-Trimethylbenzene</td>
<td>Not Established</td>
<td>25 ppm TWA</td>
<td>25 ppm TWA</td>
<td>NIOSH</td>
</tr>
<tr>
<td>Cumene</td>
<td>50 ppm TWA (skin)</td>
<td>50 ppm TWA</td>
<td>Not Established</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>
**Safety Data Sheet**

**SCIMITAR® GC**

<table>
<thead>
<tr>
<th>Date:</th>
<th>6/15/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replaces:</td>
<td>12/8/2014</td>
</tr>
</tbody>
</table>

**Propylene Glycol**
- Not Established
- Not Established
- 10 mg/m³ TWA
  - AIHA

**Petroleum Solvent**
- Not Established
- Not Established
- 100 mg/m³ (19 ppm) TWA
  - Manufacturer

**Other ingredients**
- Not Applicable
- Not Applicable
- Not Applicable
  - Not Applicable

**Lambda-Cyhalothrin**
- Not Established
- Not Established
- 0.04 mg/m³ TWA (skin)
  - Syngenta

**Appropriate engineering controls:**
Use effective engineering controls to comply with occupational exposure limits (if applicable).

**Individual protection measures:**

**Ingestion:**
- Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

**Eye Contact:**
- Where eye contact is likely, use chemical splash goggles.

**Skin Contact:**
- Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber or Viton), coveralls, socks and chemical-resistant footwear.
  - Stringent housekeeping measures are necessary to prevent translocation of the material from contaminated work surfaces to uncontaminated surfaces (railings, doors, etc.). Unprotected contact with such translocated material can result in paresthesia effects (see Section 11).

**Inhalation:**
- A combination particulate/organic vapor respirator should be used until effective engineering controls are installed to comply with occupational exposure limits, or until exposure limits are established. Use a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE filter.
  - Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Off-white liquid

**Odor:** Slight odor/typical aromatic petroleum

**Odor Threshold:** Not Available

**pH:** 7.3 (1% w/w dilution in deionized water)

**Melting point/freezing point:** Not Applicable

**Initial boiling point and boiling range:** 212 °F

**Flash Point (Test Method):** > 212°F (Setaflash)

**Flammable Limits (% in Air):** Not Available

**Flammability:** Not Applicable

**Vapor Pressure:**
- Lambda-Cyhalothrin: 1.5 x 10(-9) mmHg @ 68°F (20°C)

**Vapor Density:** Not Available

**Relative Density:** 1.036 @ 68°F (20°C)

**Solubility:**
- Lambda-Cyhalothrin: 0.004 mg/l

**Partition coefficient:**
- n-octanol/water: Not Available
SCIMITAR® GC

Date: 6/15/2015
Replaces: 12/8/2014

Autoignition Temperature: Not Available
Decomposition Temperature: Not Available
Viscosity: Not Available
Other: None

10. STABILITY AND REACTIVITY

Reactivity: Not reactive.
Chemical stability: Stable under normal use and storage conditions.
Possibility of hazardous reactions: Will not occur.
Conditions to Avoid: None known.
Incompatible materials: None known.
Hazardous Decomposition Products: None known.

11. TOXICOLOGICAL INFORMATION

Health effects information
Likely routes of exposure: Dermal, Inhalation
Symptoms of exposure: Drowsiness or dizziness, Respiratory irritation
Delayed, immediate and chronic effects of exposure: Allergic skin reaction, Drowsiness or dizziness, Respiratory irritation, Paresthesia

Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

<table>
<thead>
<tr>
<th>Route of Exposure</th>
<th>Numerical Measure</th>
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</thead>
<tbody>
<tr>
<td>Ingestion</td>
<td>Oral (LD50 Rat) : &gt; 5000 mg/kg body weight</td>
</tr>
<tr>
<td>Dermal</td>
<td>Dermal (LD50 Rat) : &gt; 2000 mg/kg body weight</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Inhalation (LC50 Rat) : &gt; 4.62 mg/l</td>
</tr>
</tbody>
</table>
Eye Contact: Non-Irritating (Rabbit)
Skin Contact: Practically Non-Irritating (Rabbit)
Skin Sensitization: A weak skin sensitizer in animal tests.

Reproductive/Developmental Effects

Lambda-Cyhalothrin: Not a developmental or reproductive toxicant.

Chronic/Subchronic Toxicity Studies

Lambda-Cyhalothrin: Reversible paresthesia (abnormal skin sensation). Reversible clinical signs of neurotoxicity in mammals.

Carcinogenicity
In humans, contact with exposed skin may result in temporary itching, tingling, burning or numbness, called paresthesia. The effect may result from splash, aerosol, or hot vapor contact, or transfer to the face from contaminated gloves and hands. The symptoms normally disappear within 24 hours. Face and genital areas are especially susceptible to this effect. Paresthesia involving the face is also known as "subjective facial sensation" or SFS.

**Other Toxicity Information**

In humans, contact with exposed skin may result in temporary itching, tingling, burning or numbness, called paresthesia. The effect may result from splash, aerosol, or hot vapor contact, or transfer to the face from contaminated gloves and hands. The symptoms normally disappear within 24 hours. Face and genital areas are especially susceptible to this effect. Paresthesia involving the face is also known as "subjective facial sensation" or SFS.

**Toxicity of Other Components**

**1,2,4-Trimethylbenzene**

Inhalation of 1,2,4-trimethylbenzene at high concentrations can cause central nervous system depression, respiratory tract irritation, asphyxiation, cardiac stress and coma. Effects of chronic exposure to this solvent can include blood disorders (anemia, leukopenia) and kidney or liver damage.

**Cumene**

Exposure to cumene vapors may cause irritation to eyes, skin, and respiratory tract. Cumene may also cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects. Prolonged exposure to high concentrations (>100 PPM) may result in liver, kidney or lung damage.

**Petroleum Solvent**

The supplier reports that high vapor/aerosol concentrations (> 1000 ppm) are irritating to the eyes and the respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects.

**Propylene Glycol**

Reported to cause central nervous system depression (anesthesia, dizziness, confusion), headache and nausea. Also, eye irritation may occur with lacrimation but no residual discomfort or injury. Prolonged contact to skin may cause mild to moderate irritation and possible allergic reactions. Chronic dietary exposure caused kidney and liver injury in experimental animals.

**Xylene**

Inhalation of xylene at high concentrations can cause central nervous system depression, respiratory tract irritation, asphyxiation, cardiac stress and coma.

**Target Organs**

**Active Ingredients**

Lambda-Cyhalothrin : Liver, nervous system

**Inert Ingredients**

1,2,4-Trimethylbenzene: CNS, liver, kidney, blood, respiratory tract, skin, eye

Cumene: Skin, eye, liver, respiratory tract, kidney, CNS

Other ingredients: Not Applicable

Petroleum Solvent: Eye, respiratory tract, CNS
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Propylene Glycol: CNS, kidney, liver
Xylene: CNS, respiratory tract, skin

12. ECOLOGICAL INFORMATION

Eco-Acute Toxicity
Lambda-Cyhalothrin:
- Fish (Rainbow Trout) 96-hour LC50 0.19 ppb
- Bird (Mallard Duck) LD50 Oral > 3950 mg/kg
- Invertebrate (Water Flea) 48-hour EC50 0.04 ppb

Environmental Fate
Lambda-Cyhalothrin:
The information presented here is for the active ingredient, lambda-cyhalothrin. Not persistent in soil or water. Immobile in soil. Sinks in water (after 24 h).

13. DISPOSAL CONSIDERATIONS

Disposal:
Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable
Listed Waste: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification
Ground Transport - NAFTA
Containers < 450 liters: Not regulated
Containers > 450 liters:
Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Lambda-Cyhalothrin)
Hazard Class or Division: Class 9
Identification Number: UN 3082
Packing Group: PG III

Comments
Water Transport - International
Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Lambda-Cyhalothrin), Marine Pollutant
Hazard Class or Division: Class 9
Identification Number: UN 3082
Packing Group: PG III

Air Transport
Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Lambda-Cyhalothrin)
Hazard Class or Division: Class 9
Identification Number: UN 3082
Packing Group: PG III
Safety Data Sheet

SCIMITAR® GC

Date: 6/15/2015
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15. REGULATORY INFORMATION

Pesticide Registration:
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. Following is the hazard information as required on the pesticide label:

Caution: Harmful if absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic skin reactions in some individuals. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist or vapors. Harmful if inhaled. Wash thoroughly with soap and water after handling, and before eating, drinking, chewing gum, or using tobacco. Remove contaminated clothing and wash clothing before reuse.

EPA Registration Number(s):
100-1088

EPCRA SARA Title III Classification:
Section 311/312 Hazard Classes: Acute Health Hazard
Chronic Health Hazard

Section 313 Toxic Chemicals:
Xylene <1% (CAS No. 1330-20-7)
1,2,4-Trimethylbenzene <2.5% (CAS No. 95-63-6)
Cumene <1% (CAS No. 98-82-8)

CERCLA/SARA 304 Reportable Quantity (RQ):
Report product spills > 520 gal. (based on xylene [RQ = 100 lbs.] content in the formulation)

RCRA Hazardous Waste Classification (40 CFR 261):
Not Applicable

TSCA Status:
Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

NFPA Hazard Ratings

<table>
<thead>
<tr>
<th>Health:</th>
<th>Flammability:</th>
<th>Instability:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

HMIS Hazard Ratings

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<tr>
<th>Health:</th>
<th>Flammability:</th>
<th>Reactivity:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

Syngenta Hazard Category: C,S

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date: 9/20/1999
Revision Date: 6/15/2015
Section(s) Revised: 2, 11

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.
SCIMITAR® GC

Date: 6/15/2015
Replaces: 12/8/2014
<table>
<thead>
<tr>
<th>WinField United</th>
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<tbody>
<tr>
<td><strong>Item:</strong> Pesticides: Pesticides: Pesticides: Pesticides: Pesticides: Bayleton Flowable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Attachments</th>
</tr>
</thead>
<tbody>
<tr>
<td>bayleton_flo.pdf</td>
</tr>
</tbody>
</table>
SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier
Trade name BAYLETON® FLO TURF AND ORNAMENTAL FUNGICIDE
SDS Number 102000013850
EPA Registration No. 432-1445

Relevant identified uses of the substance or mixture and uses advised against
Use Fungicide
Restrictions on use See product label for restrictions.

Information on manufacturer
Bayer Environmental Science
2 T.W. Alexander Drive
Research Triangle PK, NC 27709
United States

Emergency telephone no.
Emergency Telephone Number (24hr/7 days) 1-800-334-7577 (24 hours/day)
Product Information Telephone Number 1-800-331-2867
SDS Information or Request SDSINFO.BCS-NA@bayer.com

SECTION 2: HAZARDS IDENTIFICATION

Acute toxicity (Oral, Inhalation): Category 4

Signal word: Warning

Hazard statements
Harmful if swallowed or if inhaled.

Precautionary statements
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid breathing mist and spray.
Use only outdoors or in a well-ventilated area.
IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.
Rinse mouth.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell. Dispose of contents/container in accordance with local regulation.

Other hazards
No other hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Component Name</th>
<th>CAS-No.</th>
<th>Concentration % by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triadimefon</td>
<td>43121-43-3</td>
<td>43.00</td>
</tr>
<tr>
<td>Glycerine</td>
<td>56-81-5</td>
<td>10.70</td>
</tr>
<tr>
<td>Polyethylene-polypropylene copolymer</td>
<td>9003-11-6</td>
<td>1.80</td>
</tr>
<tr>
<td>Naphthalene and alkyl naphthalene sulphonic acids formaldehyde condensate, sodium salt</td>
<td>68425-94-5</td>
<td>1.70</td>
</tr>
</tbody>
</table>

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

Inhalation Move 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 physician or poison control center immediately.

Skin contact Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.

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 physician or poison control center immediately.

Ingestion Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

Most important symptoms and effects, both acute and delayed

Symptoms Hyperactivity followed by sedation

Indication of any immediate medical attention and special treatment needed

Treatment Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.
SECTION 5: FIREFIGHTING MEASURES

Extinguishing media
Suitable Water, Carbon dioxide (CO2), Dry chemical, Foam
Unsuitable None known.

Special hazards arising from the substance or mixture
Dangerous gases are evolved in the event of a fire.

Advice for firefighters
Special protective equipment for fire-fighters Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.
Further information Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

Flash point > 100 °C
No flash point - Determination conducted up to the boiling point.

Autoignition temperature no data available
Lower explosion limit no data available
Upper explosion limit no data available
Explosivity not applicable

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Precautions Isolate hazard area. Keep unauthorized people away. Avoid contact with spilled product or contaminated surfaces.

Methods and materials for containment and cleaning up
Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

Additional advice Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.

Reference to other sections Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.
SECTION 7: HANDLING AND STORAGE

Precautions for safe handling
Advice on safe handling Handle and open container in a manner as to prevent spillage. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

Hygiene measures Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

Conditions for safe storage, including any incompatibilities
Requirements for storage areas and containers Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Protect from freezing.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triadimefon</td>
<td>43121-43-3</td>
<td>0.7 mg/m3 (TWA)</td>
<td></td>
<td>OES BCS*</td>
</tr>
<tr>
<td>Triadimefon</td>
<td>43121-43-3</td>
<td>100ug/m3 (ST ESL)</td>
<td>07 2011</td>
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<tr>
<td>Triadimefon</td>
<td>43121-43-3</td>
<td>10ug/m3 (AN ESL)</td>
<td>07 2011</td>
<td>TX ESL</td>
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<tr>
<td>Glycerine (Total dust.)</td>
<td>56-81-5</td>
<td>15 mg/m3 (PEL)</td>
<td>02 2006</td>
<td>OSHA Z1</td>
</tr>
<tr>
<td>Glycerine (Respirable fraction.)</td>
<td>56-81-5</td>
<td>5 mg/m3 (PEL)</td>
<td>02 2006</td>
<td>OSHA Z1</td>
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<tr>
<td>Glycerine (Respirable fraction.)</td>
<td>56-81-5</td>
<td>5 mg/m3 (TWA)</td>
<td>1989</td>
<td>OSHA Z1A</td>
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<tr>
<td>Glycerine (Total dust.)</td>
<td>56-81-5</td>
<td>10 mg/m3 (TWA)</td>
<td>1989</td>
<td>OSHA Z1A</td>
</tr>
<tr>
<td>Glycerine (Total dust and mist.)</td>
<td>56-81-5</td>
<td>10 mg/m3 (TWA)</td>
<td>06 2008</td>
<td>TN OEL</td>
</tr>
<tr>
<td>Glycerine (Respirable fraction and dust or fume.)</td>
<td>56-81-5</td>
<td>5 mg/m3 (TWA)</td>
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<td>TN OEL</td>
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<td>50ug/m3 (ST ESL)</td>
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<td>TX ESL</td>
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<tr>
<td>Glycerine</td>
<td>56-81-5</td>
<td>5ug/m3</td>
<td>02 2013</td>
<td>TX ESL</td>
</tr>
</tbody>
</table>
Exposure controls

Personal protective equipment
In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection
When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

Hand protection
Chemical resistant nitrile rubber gloves

Eye protection
Safety glasses with side-shields

Skin and body protection
Wear long-sleeved shirt and long pants and shoes plus socks.

General protective measures
Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.
Keep and wash PPE separately from other laundry.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | brown |
| Physical State | liquid suspension opaque |
| Odor | characteristic |
| Odour Threshold | no data available |
| pH | ca. 6.7 at 10 % (20 °C) (CIPAC D water (342ppm)) |
| Vapor Pressure | no data available |
| Vapor Density (Air = 1) | no data available |
| Density | ca. 1.16 g/cm³ at 20 °C |
| Evaporation rate | no data available |
Boiling Point: no data available
Melting / Freezing Point: no data available
Water solubility: dispersible
Minimum Ignition Energy: not applicable
Decomposition temperature: not applicable
Partition coefficient: n-octanol/water: not applicable
Viscosity: 600 - 1,500 cps
Flash point: > 100 °C
   No flash point - Determination conducted up to the boiling point.
Autoignition temperature: no data available
Lower explosion limit: no data available
Upper explosion limit: no data available
Explosivity: not applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity
Thermal decomposition: not applicable
Chemical stability: Stable under normal conditions.
Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.
Conditions to avoid: Extremes of temperature and direct sunlight.
Incompatible materials: no data available
Hazardous decomposition products: No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Ingestion, Inhalation, Eye contact, Skin Absorption
Immediate Effects
   Eye: Mild eye irritation.
   Skin: Harmful if absorbed through skin. Slight irritation
   Ingestion: Harmful if swallowed.
Inhalation Harmful if inhaled.

Information on toxicological effects

Acute oral toxicity LD50 (female rat) 1,750 mg/kg

Acute inhalation toxicity LC50 (male/female combined rat) > 2.1 mg/l
Exposure time: 4 h
Determined in the form of liquid aerosol.
highest concentration tested
(actual)

LC50 (male/female combined rat) > 8.4 mg/l
Exposure time: 1 h
Determined in the form of liquid aerosol.
Extrapolated from the 4 hr LC50.
(actual)

Acute dermal toxicity LD50 (male/female combined rat) > 5,000 mg/kg

Skin irritation Slight irritation (rabbit)

Eye irritation Mild eye irritation. (rabbit)

Sensitisation Non-sensitizing. (guinea pig)

Assessment repeated dose toxicity
Triadimefon did not cause specific target organ toxicity in experimental animal studies.

Assessment Mutagenicity
Triadimefon was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment Carcinogenicity
Triadimefon was not carcinogenic in a lifetime feeding study in rats. Triadimefon caused an increased incidence of tumours in mice in the following organ(s): liver. The mechanism that triggers these tumours is not relevant to humans.

ACGIH
None.

NTP
None.

IARC
None.

OSHA
None.

Assessment toxicity to reproduction
Triadimefon caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. Triadimefon caused reduced fertility, a reduced pup survival.

Assessment developmental toxicity
Triadimefon caused developmental toxicity in only at dose levels toxic to the dams. Triadimefon caused an increased incidence of non-specific malformations.

Further information

Only acute toxicity studies have been performed on the formulated product. The non-acute information pertains to the active ingredient(s).

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50</td>
<td>4.08 mg/l, Exposure time: 96 h</td>
</tr>
<tr>
<td></td>
<td>The value mentioned relates to the active ingredient triadimefon.</td>
</tr>
</tbody>
</table>

Toxicity to aquatic invertebrates

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50</td>
<td>7.16 mg/l, Exposure time: 48 h</td>
</tr>
<tr>
<td></td>
<td>The value mentioned relates to the active ingredient triadimefon.</td>
</tr>
</tbody>
</table>

Toxicity to aquatic plants

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>IC50</td>
<td>2.01 mg/l, Exposure time: 120 h</td>
</tr>
<tr>
<td></td>
<td>The value mentioned relates to the active ingredient triadimefon.</td>
</tr>
</tbody>
</table>

Biodegradability

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triadimefon</td>
<td>Not rapidly biodegradable</td>
</tr>
</tbody>
</table>

Koc

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triadimefon</td>
<td>Koc: 150 - 510</td>
</tr>
</tbody>
</table>

Bioaccumulation

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triadimefon: Bioconcentration factor (BCF)</td>
<td>31; Does not bioaccumulate.</td>
</tr>
</tbody>
</table>

Mobility in soil

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triadimefon:</td>
<td>Moderately mobile in soils</td>
</tr>
</tbody>
</table>

Environmental precautions

- Do not allow to get into surface water, drains and ground water.
- Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.
- Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites.
- Do not apply when weather conditions favor runoff or drift.
- Apply this product as specified on the label.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product

Follow container label instructions for disposal of wastes generated during use in compliance with the product label. Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.

Contaminated packaging

Do not re-use empty containers.
Triple rinse containers.
Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. If burned, stay out of smoke. Follow advice on product label and/or leaflet.

**RCRA Information**

Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

### SECTION 14: TRANSPORT INFORMATION

**49CFR**

Not dangerous goods / not hazardous material

**IMDG**

- UN number: 3082
- Class: 9
- Packaging group: III
- Marine pollutant: YES
- Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRIADIMEFON SOLUTION)

**IATA**

- UN number: 3082
- Class: 9
- Packaging group: III
- Environm. Hazardous Mark: YES
- Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRIADIMEFON SOLUTION)

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

**Freight Classification:** INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN POISON

### SECTION 15: REGULATORY INFORMATION

**EPA Registration No.** 432-1445
US Federal Regulations

TSCA list
Glycerine 56-81-5
Polyethylene-polypropylene copolymer 9003-11-6
Naphthalene and alkyl naphthalene sulphonic acids formaldehyde condensate, sodium salt

US Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)
None.

SARA Title III - Section 302 - Notification and Information
None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting
Triadimefon 43121-43-3 25,000lbs

US States Regulatory Reporting

CA Prop65
This product does not contain any substances known to the State of California to cause cancer.

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
Triadimefon 43121-43-3 Developmental toxin.
Triadimefon 43121-43-3 Male reproductive toxin.
Triadimefon 43121-43-3 Female reproductive toxin.

US State Right-To-Know Ingredients
Triadimefon 43121-43-3 NJ
Glycerine 56-81-5 MN

Canadian Regulations

Canadian Domestic Substance List
Glycerine 56-81-5
Polyethylene-polypropylene copolymer 9003-11-6
Naphthalene and alkyl naphthalene sulphonic acids formaldehyde condensate, sodium salt

Environmental

CERCLA
None.

Clean Water Section 307 Priority Pollutants
None.

Safe Drinking Water Act Maximum Contaminant Levels
None.

International Regulations

European Inventory of Existing Commercial Substances (EINECS)
Triadimefon 43121-43-3
Glycerine 56-81-5

EPA/FIFRA Information:
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. Following is the hazard information required on the pesticide label:

**Signal word:** Caution!

**Hazard statements:**
- Harmful if swallowed, inhaled or absorbed through the skin.
- Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.
- Avoid breathing dust or spray mist.
- Avoid contact with skin, eyes and clothing.
- Wash thoroughly with soap and water after handling.
- Remove and wash contaminated clothing before re-use.

---

**SECTION 16: OTHER INFORMATION**

**NFPA 704 (National Fire Protection Association):**
- Health - 2
- Flammability - 1
- Instability - 0
- Others - none

- Health - 1
- Flammability - 1
- Physical Hazard - 0
- PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

**Reason for Revision:** Revised according to the current OSHA Hazard Communication Standard (29CFR1910.1200)

**Revision Date:** 09/17/2014

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.
<table>
<thead>
<tr>
<th>WinField United</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item: <strong>Pesticides:</strong> <strong>Cleary's 3336 Fungicide</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Attachments</th>
</tr>
</thead>
<tbody>
<tr>
<td>mp9KL000.pdf</td>
</tr>
</tbody>
</table>
1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Nufarm T-Methyl 4.5 F Fungicide
EPA Reg. No.: 228-652
Product Type: Fungicide
Company Name: Nufarm Americas Inc
11901 S. Austin Avenue
Alsip, IL 60803
1-800-345-3330

Telephone Numbers: For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident,
Call CHEMTREC Day or Night: 1-800-424-9300
For Medical Emergencies Only, Call 1-877-325-1840

This product is an EPA FIFRA registered pesticide. Some classifications on this SDS are not exactly the same as on the FIFRA label. Certain sections are superseded by federal law governed by EPA for a registered pesticide. Please see Section 15. REGULATORY INFORMATION for explanation.

2. HAZARDS IDENTIFICATION

HEALTH HAZARDS:
- Acute toxicity, oral Category 4
- Acute toxicity, inhalation Category 4
- Skin irritation Category 2
- Eye irritation Category 2B
- Specific target organ toxicity – Repeated exposure Category 2

ENVIRONMENTAL HAZARDS:
- Hazardous to aquatic environment, acute Category 2
- Hazardous to aquatic environment, chronic Category 2

SIGNAL WORD:
WARNING

HAZARD STATEMENTS:
Harmful if swallowed or inhaled. Causes skin irritation. Causes eye irritation. May cause damage to organs (liver and thyroid) through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:
Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth.

Avoid breathing mists/vapors/spray. Use only outdoors or in well-ventilated area. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

Wear protective gloves/eye protection/face protection. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

May 24, 2017
SAFETY DATA SHEET  
Nufarm T-Methyl 4.5 F Fungicide

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.

Avoid release to the environment. Collect spillage.

Dispose of contents/container in accordance with local/regional/national/international regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>COMPONENTS</th>
<th>CAS NO.</th>
<th>% BY WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thiophanate-methyl</td>
<td>23564-05-8</td>
<td>44.8 - 47.6</td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>57-55-6</td>
<td>6.3 – 5.7</td>
</tr>
<tr>
<td>Other Ingredients</td>
<td>Trade Secret</td>
<td>Trade Secret</td>
</tr>
</tbody>
</table>

**Synonyms:** Thiophanate-methyl; T-Methyl; dimethyl [(1,2-phenylene)bis (iminocarbonothioyl)] bis(carbamate)

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

If in Eyes: Hold eye open and rinse slowly and gently with water for 15 to 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.

If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

If Swallowed: Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**Most Important symptoms/effects, acute and delayed:** Eye exposure may cause irritation. Skin exposure may cause mild irritation.

**Indication of Immediate medical attention and special treatment if needed, if necessary:** None expected.

5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Use extinguishing media suitable for surrounding materials. Dry chemical, carbon dioxide, foam, water spray or fog.

**Special Fire Fighting Procedures:** Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full fire-fighting turn out gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

**Unusual Fire and Explosion Hazards:** If water is used to fight fire, contain runoff, using dikes to prevent contamination of water supplies. Dispose of fire control water later.

**Hazardous Decomposition Materials (Under Fire Conditions):** May produce gases such as oxides of carbon and nitrogen.

6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

**Environmental Precautions:** Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

**Methods for Containment:** Dike spill using absorbent or impervious materials such as earth, sand or clay. Collect and contain contaminated absorbent and dike material for disposal.
Methods for Cleanup and Disposal: Avoid creation of dusty conditions. Scrape up and place in appropriate closed container. Wash entire spill area with a detergent slurry, absorb and sweep into container for disposal. Decontaminate tools and equipment following cleanup. See Section 13: DISPOSAL CONSIDERATIONS for more information.

Other Information: Large spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

7. HANDLING AND STORAGE

HANDLING: Avoid contact with eyes or clothing. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing/Personal Protective Equipment (PPE) immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove Personal Protective Equipment (PPE) immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

STORAGE: Store in original container in a dry, temperature controlled area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:
Where engineering controls are indicated by specific use conditions or a potential for excessive exposure, use local exhaust ventilation at the point of generation.

Eye/Face Protection: Not normally required. To avoid contact with eyes, wear chemical goggles or shielded safety glasses. An emergency eyewash or water supply should be readily accessible to the work area.

Skin Protection: To avoid contact with skin, wear long pants, long-sleeved shirt, socks and shoes. An emergency shower or water supply should be readily accessible to the work area.

Respiratory Protection: Not normally required. If vapors or mists exceed acceptable levels, wear NIOSH approved air-purifying respirator with cartridges/canisters approved for use against pesticides.

General Hygiene Considerations: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: 1) do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored; 2) wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics or using the toilet.

Exposure Guidelines:

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA</th>
<th>ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TWA</td>
<td>STEL</td>
</tr>
<tr>
<td>Thiophanate-methyl</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Propylene glycol</td>
<td>10  (WEEL)</td>
<td>NE</td>
</tr>
<tr>
<td>Other Ingredients</td>
<td>NE</td>
<td>NE</td>
</tr>
</tbody>
</table>

NE = Not Established
WEEL = Workplace Environmental Exposure Levels

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Opaque liquid
Odor: No data available
Odor threshold: No data available
pH: 5.08
Melting point/freezing point: No data available
Initial boiling point and boiling range: No data available
Flash point: No data available
Evaporation rate: No data available
Flammability (solid, gas): No data available
Upper/lower flammability or explosive limits: No data available
Vapor pressure: No data available
Vapor density: No data available
Relative density: 1.208 g/ml
Solubility(ies): Dispersible
Partition coefficient: n-octanol/water: No data available
Autoignition temperature: No data available
Decomposition temperature: No data available
Viscosity: 275.358 cSt (20° C) and 146.736 cSt (40° C)

Note: Physical data are typical values, but may vary from sample to sample. A typical value should not be construed as a guaranteed analysis or as a specification.

10. STABILITY AND REACTIVITY

Reactivity: Not reactive
Chemical Stability: This material is stable under normal handling and storage conditions.
Possibility of Hazardous Reactions:
Conditions to Avoid: Excessive heat. Do not store near heat or flame.
Hazardous Decomposition Products: Under fire conditions may produce oxides of carbon, nitrogen and sulfur.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Skin contact, Eye contact
Symptoms of Exposure:
Eye Contact: Mildly irritating based on toxicity studies.
Skin Contact: Minimally toxic and slightly irritating based on toxicity studies.
Ingestion: Slightly toxic if ingested based on toxicity studies.
Inhalation: Low inhalation toxicity based on toxicity studies.
Delayed, immediate and chronic effects of exposure: None expected

Toxicological Data:
Data from laboratory studies conducted are summarized below:
Oral: Rat LD₅₀: 1,750 mg/kg (female)
Dermal: Rat LD₅₀: >5,000 mg/kg
Inhalation: Rat 4-hr LC₅₀: >2.05 mg/L
Eye Irritation: Rabbit: Mildly irritating
Skin Irritation: Rabbit: Slightly irritating
Skin Sensitization: Not a contact sensitizer in guinea pigs following repeated skin exposure.
Subchronic (Target Organ) Effects: Repeated overexposure to thiophanate methyl may cause mild anemia and affect the liver and thyroid. Overexposure to propylene glycol has been associated with kidney toxicity, liver toxicity (animals) and lactic acidosis. Very high dose acute exposure may result in CNS and cardiac effects.
Carcinogenicity / Chronic Health Effects: Prolonged overexposure to thiophanate methyl may affect the liver and thyroid. Thiophanate methyl produced dose-dependent increases in benign liver tumors in mice and thyroid tumors in rats. Overexposure to propylene glycol has been associated with kidney toxicity, liver toxicity (animals) and lactic acidosis.
Reproductive Toxicity: Thiophanate methyl did not cause reproductive toxicity in multi-generation studies in rats. In the mouse, propylene glycol was not a reproductive toxicant.
Developmental Toxicity: In a rabbit study with thiophanate methyl, slight skeletal variations and decreased fetal weights were observed at doses that were also toxic to mother animals. In a series of animal studies, propylene glycol was not a developmental toxicant.
Genotoxicity: There have been some positive and some negative studies, but the weight of evidence is that thiophanate methyl is not mutagenic. Propylene glycol was consistently nonmutagenic.
Assessment Carcinogenicity: None listed with ACGIH, IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity:
Data on Thiophanate Methyl Technical:
- 96-hour LC$_{50}$: Bobwhite Quail 8-day Dietary LC$_{50}$: >10,000 ppm
- 96-hour LC$_{50}$: Mallard Duck Oral LD$_{50}$: 4,640 mg/kg
- 48-hour EC$_{50}$: Daphnia: 5.4 ppm
- 96-hour LC$_{50}$: Mysid: 1.1 ppm

Environmental Fate: Thiophanate methyl degrades primarily to MBC whether on foliage, in soil or in water in a matter of days. Both photolysis and hydrolysis are important routes of degradation. MBC is microbiologically degraded, but stable to aqueous photodegradation, stable to hydrolysis at pH values ranging from 5 to 7 and stable to soil photolysis. Metabolism under aerobic and anaerobic conditions in both soil and water proceeds at a slow rate. Under application conditions, average half-lives are about 20 to 50 days, but may be as short as a few days with repeated use.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:
Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide is a violation of Federal law.

Container Handling and Disposal: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

14. TRANSPORTATION INFORMATION

DOT
- < 2 gallons per completed package
  Non Regulated
- ≥ 2 gallons but < 119 gallons per completed package
  UN 3082, Environmentally hazardous substances, liquid, n.o.s., 9, III, (thiophanate-methyl), RQ
- ≥ 119 gallons per completed package
  UN 3082, Environmentally hazardous substances, liquid, n.o.s., 9, III, (thiophanate-methyl), Marine Pollutant, RQ

IMDG
- UN 3082, Environmentally hazardous substances, liquid, n.o.s., 9, III, (thiophanate-methyl), Marine Pollutant

IATA
- Non Regulated

15. REGULATORY INFORMATION

EPA FIFRA INFORMATION
This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.
CAUTION. Causes moderate eye irritation. Harmful if swallowed. Avoid contact with eyes or clothing.

**U.S. FEDERAL REGULATIONS**

**TSCA Inventory:** This product is exempted from TSCA because it is solely for FIFRA regulated use.

**SARA Hazard Notification/Reporting:**

**Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370):**
Immediate and delayed

**Section 313 Toxic Chemical(s):**
Thiophanate-methyl (CAS No. 23564-05-8) 68 – 72.1% equivalent by weight in product

**Reportable Quantity (RQ) under U.S. CERCLA:**
Thiophanate-methyl (CAS No. 23564-05-8) 10 pounds

**RCRA Waste Code:**
Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

**State Information:**
Other state regulations may apply. Check individual state requirements.

**California Proposition 65:** Thiophanate-methyl is known to the state of California to cause developmental effects in males and females.

16. **OTHER INFORMATION**

**National Fire Protection Association (NFPA) Hazard Rating:**

**Rating for this product:**
- **Health:** 1
- **Flammability:** 1
- **Reactivity:** 0

**Hazard Scale:**
- 0 = Minimal
- 1 = Slight
- 2 = Moderate
- 3 = Serious
- 4 = Severe

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-ACCEPTED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of Federal law to use a pesticide product in any manner not prescribed on the EPA-accepted label.

Although the information and recommendations set forth herein (hereinafter “Information”) are presented in good faith and believed to be correct as of the date hereof, Nufarm Americas Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Nufarm Americas Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS AND ALL SUCH WARRANTIES ARE HEREBY SPECIFICALLY DISCLAIMED.

**Date of Issue:** May 23, 2017

**Supersedes:** January 13, 2017
### WinField United

**Item:** Pesticides:Daconil Fungicide (20 lbs/case)

**Attachments**

daconil ultrex turf 09122018.pdf
1. PRODUCT IDENTIFICATION

Product identifier on label: DACONIL ULTREX® TURF CARE®
Product No.: A12836A
Use: Fungicide
Manufacturer: Syngenta Crop Protection, LLC
Post Office Box 18300
Greensboro NC 27419
Manufacturer Phone: 1-800-334-9481
Emergency Phone: 1-800-888-8372

2. HAZARDS IDENTIFICATION

Classifications:
- Skin Sensitizer: Category 1B
- Carcinogenicity: Category 2
- Specific Target Organ Toxicity: Repeated Category 2
- Specific Target Organ Toxicity: Respiratory Irritation Category 3
- Eye Damage/Irritation: Category 1
- Inhalation: Category 2

Signal Word (OSHA): Warning

Hazard Statements:
- May cause an allergic skin reaction
- Causes serious eye damage
- Fatal if inhaled
- May cause respiratory irritation
- Suspected of causing cancer
- May cause damage to organs through prolonged or repeated exposure

Precautionary Statements:
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe mist, vapors, spray.
- Use only outdoors or in a well-ventilated area.
- Contaminated work clothing must not be allowed out of the workplace.
- Wear protective gloves, protective clothing, eye protection.
- In case of inadequate ventilation wear respiratory protection. See Section 8 Exposure Control/Personal Protection.
DACONIL ULTREX® TURF CARE®

Date: 9/12/2018
Replaces: 9/5/2018

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Common Name</th>
<th>CAS Number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kaolin Clay</td>
<td>Kaolin Clay</td>
<td>1332-58-7</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>Other ingredients</td>
<td>Trade Secret</td>
<td>17.5%</td>
</tr>
<tr>
<td>Tetrachloroisophthalonitrile</td>
<td>Chlorothalonil</td>
<td>1897-45-6</td>
<td>82.5%</td>
</tr>
</tbody>
</table>

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

Have the product container, label or Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

Ingestion: If swallowed: Call Syngenta (800-888-8372), a poison control center or doctor immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so after calling 800-888-8372 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

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 5 minutes, then continue rinsing eye. Call Syngenta (800-888-8372), a poison control center or doctor for 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 Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Inhalation: If inhaled: 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 Syngenta (800-888-8372), a poison control center or doctor for further treatment advice.

Most important symptoms/effects:
- Eye irritation
- Allergic skin reaction

Other Hazard Statements: None
DACONIL ULTREX® TURF CARE®

Date: 9/12/2018
Replaces: 9/5/2018

Respiratory irritation

Indication of immediate medical attention and special treatment needed:
There is no specific antidote if this product is ingested.

Treat symptomatically.

Persons having a temporary allergic reaction may respond to treatment with antihistamines or steroid creams and/or systemic steroids.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Special protective equipment and precautions for firefighters:

Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Sweep up material and place in a compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

Precautions for safe handling:

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Conditions for safe storage, including any incompatibilities:

Store locked up.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kaolin Clay</td>
<td>15 mg/m³ TWA (total); 5 mg/m³ TWA (respirable)</td>
<td>2 mg/m³ TWA (respirable)</td>
<td>10 mg/m³ TWA (total); 5 mg/m³ TWA (respirable)</td>
<td>NIOSH</td>
</tr>
</tbody>
</table>
Appropriate engineering controls:
Use effective engineering controls to comply with occupational exposure limits (if applicable).

Individual protection measures:

Ingestion:
Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact:
Where eye contact is likely, use dust-proof chemical goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Skin Contact:
Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.

Inhalation:
A particulate filter respirator may be necessary until effective engineering controls are installed to comply with occupational exposure limits. Use a NIOSH approved respirator with any HE filter.

Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Brown granules
Odor: Slight
Odor Threshold: Not Available
pH: 8 - 10
Melting point/freezing point: 482 °F
Initial boiling point and boiling range: > 662 °F
Flash Point (Test Method): Not Applicable
Flammable Limits (% in Air): Not Available
Flammability: Not Applicable
Vapor Pressure: Chlorothalonil 0.00000057mmHg @ 77°F (25°C)
Vapor Density: Not Available
Relative Density: 0.74 g/cm³
Solubility (ies): Chlorothalonil 0.81 mg/l @ 77°F (25°C)
Partition coefficient: n-octanol/water: Not Available
Autoignition Temperature: Not Applicable
Decomposition Temperature: Not Available
Viscosity: Not Available
Other: None
Safety Data Sheet

DACONIL ULTREX® TURF CARE®

Date: 9/12/2018
Replaces: 9/5/2018

10. STABILITY AND REACTIVITY

Reactivity: Not reactive.
Chemical stability: Stable under normal use and storage conditions.
Possibility of hazardous reactions: Material is not known to polymerize.
Conditions to Avoid: None known.

Incompatible materials: None known.

Hazardous Decomposition Products: None known.

11. TOXICOLOGICAL INFORMATION

Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

Ingestion: Oral (LD50 Rat): > 5000 mg/kg body weight
Dermal: Dermal (LD50 Rat): > 2000 mg/kg body weight
Inhalation: Inhalation (LC50 Rat): > .91 mg/l - 4 hours (calculated)
Eye Contact: Severely Irritating (Rabbit)
Skin Contact: Mild Irritant
Skin Sensitization: A skin sensitizer in animal tests.

Reproductive/Developmental Effects

Chlorothalonil: Did not show reproductive toxicity effects in animal experiments. Did not show teratogenic effects in animal experiments.

Chronic/Subchronic Toxicity Studies

Chlorothalonil: In dogs, 1 year administration caused a significant decrease in body weight gain and increases in absolute liver and kidney weights.

Neurotoxicity: No evidence in regulatory studies.

Carcinogenicity

Chlorothalonil: Chlorothalonil causes kidney tumors in rats and mice via a nongenotoxic mode of action secondary to target organ toxicity. Did not show mutagenic effects in animal experiments. IARC identifies chlorothalonil as a 2B carcinogen (possibly carcinogenic to humans).
Other Toxicity Information

Studies on rats and mice have suggested that technical chlorothalonil (97%), when fed at high levels in the diet, may have oncogenic potential to these laboratory animals. However, neither chlorothalonil nor its metabolites interact with DNA and thus are not mutagenic. Tumor formation has been related to a non-genotoxic mechanism of action for which threshold levels have been established in rats and mice. Comprehensive dietary and worker exposure studies have shown exposure levels for humans to be well below these threshold levels. In addition, surveillance of chlorothalonil plant workers for over twenty years has not demonstrated any increase in oncogenic potential to humans.

May cause sensitization by skin contact. Exposure of the skin to chlorothalonil may result in weak contact dermatitis. Rat studies using finely milled chlorothalonil material (98.2% pure) showed an LC50 of 100 mg/m³ (0.1 mg/l). At all exposure concentrations there were clinical signs of respiratory tract irritation. There was no evidence of systemic effects resulting from these tests. This data indicate that chlorothalonil, especially finely ground material, presents a significant acute inhalation hazard. However, it is unlikely to cause harmful effects when handled and used as directed on the label.

Toxicity of Other Components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>NTP/IARC/OSHA Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kaolin Clay</td>
<td>No</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>No</td>
</tr>
<tr>
<td>Tetrachloroisophthalonitrile</td>
<td>IARC Group 2B</td>
</tr>
</tbody>
</table>

Target Organs

**Active Ingredients**

- Chlorothalonil: Lung, kidney

**Inert Ingredients**

- Kaolin Clay: Eye, respiratory tract, lung

Other ingredients: Not Established

12. ECOLOGICAL INFORMATION

**Eco-Acute Toxicity**

- Chlorothalonil:
  - Green Algae: 5-day EC50 190 ppb
  - Bird (Mallard Duck): LD50 Oral > 4640 mg/kg
  - Invertebrate (Water Flea): 48-hour EC50 70 ppb
  - Fish (Rainbow Trout): 96-hour LC50 47 ppb

**Environmental Fate**

- Chlorothalonil:
  - The information presented here is for the active ingredient, chlorothalonil.
  - Low bioaccumulation potential. Not persistent in soil or water. Low mobility in soil. Sinks in water (after 24 h).
13. DISPOSAL CONSIDERATIONS

Disposal:
Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable
Listed Waste: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification
Ground Transport - NAFTA
Not regulated

Comments
Water Transport - International
Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S. (Chlorothalonil), Marine Pollutant
Hazard Class: Class 9
Identification Number: UN 3077
Packing Group: PG III

Air Transport
Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S. (Chlorothalonil)
Hazard Class: Class 9
Identification Number: UN 3077
Packing Group: PG III

15. REGULATORY INFORMATION

Pesticide Registration:
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. Following is the hazard information as required on the pesticide label:

Danger: Corrosive. Causes irreversible eye damage. May be fatal if inhaled. Causes skin irritation. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

EPA Registration Number(s):
50534-202-100

EPCRA SARA Title III Classification:
Section 311/312 Hazard Classes: Acute Health Hazard
Chronic Health Hazard

Section 313 Toxic Chemicals: Chlorothalonil 82.5% (CAS No. 1897-45-6)

California Proposition 65:
ATTENTION: This product can expose you to chemicals including chlorothalonil, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

CERCLA/SARA 304 Reportable Quantity (RQ):
None
**DACONIL ULTREX® TURF CARE®**

<table>
<thead>
<tr>
<th>Date:</th>
<th>9/12/2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replaces:</td>
<td>9/5/2018</td>
</tr>
</tbody>
</table>

**RCRA Hazardous Waste Classification (40 CFR 261):**
- Not Applicable

**TSCA Status:**
- Exempt from TSCA, subject to FIFRA

## 16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA Hazard Ratings</th>
<th>HMIS Hazard Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health:</td>
<td>Health:</td>
</tr>
<tr>
<td>Flammability:</td>
<td>Flammability:</td>
</tr>
<tr>
<td>Instability:</td>
<td>Reactivity:</td>
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</table>

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>HMIS Hazard Ratings</th>
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</thead>
<tbody>
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<td>3</td>
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<td>0</td>
<td>3 Minimal</td>
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<tr>
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<td>0</td>
<td>1 Slight</td>
</tr>
<tr>
<td>0</td>
<td>2</td>
<td>0</td>
<td>2 Moderate</td>
</tr>
<tr>
<td>1</td>
<td>3</td>
<td>0</td>
<td>3 Serious</td>
</tr>
<tr>
<td>2</td>
<td>4</td>
<td>0</td>
<td>4 Extreme</td>
</tr>
</tbody>
</table>
*        |              |            | * Chronic           |

Syngenta Hazard Category: D,S

For non-emergency questions about this product call:

1-800-334-9481

**Original Issued Date:** 11/12/1998
**Revision Date:** 9/12/2018
**Replaces:** 9/5/2018

**Section(s) Revised:** 15

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Attachments</td>
<td>03_23446 09122018.pdf</td>
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</table>
1. PRODUCT IDENTIFICATION

Product identifier on label: DACONIL Weather Stik®
Product No.: A12531B
Use: Fungicide
Manufacturer: Syngenta Crop Protection, LLC
             Post Office Box 18300
             Greensboro NC 27419
Manufacturer Phone: 1-800-334-9481
Emergency Phone: 1-800-888-8372

2. HAZARDS IDENTIFICATION

Classifications:
Oral: Category 4
Inhalation: Category 3
Skin Sensitizer: Category 1B
Carcinogenicity: Category 2
Specific Target Organ Toxicity: Respiratory Irritation Category 3

Signal Word (OSHA): Danger

Hazard Statements:
Harmful if swallowed
May cause an allergic skin reaction
Toxic if inhaled
May cause respiratory irritation
Suspected of causing cancer

Precautionary Statements:
Wash hands and face thoroughly after handling.
Do not eat, drink or smoke when using this product.
If swallowed: Call a poison center, doctor or Syngenta if you feel unwell. Rinse mouth.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves, protective clothing, eye protection.
If on skin: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If exposed or concerned: Get medical advice/attention.
Call a poison center, doctor or Syngenta if you feel unwell.
See Section 4 First Aid Measures.
Wash contaminated clothing before reuse.
Store locked up.
Dispose of contents and container in accordance with local regulations.

Other Hazard Statements: None

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Common Name</th>
<th>CAS Number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-Propanediol</td>
<td>Propylene Glycol</td>
<td>57-55-6</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>Silica, amorphous</td>
<td>Silica, amorphous</td>
<td>112926-00-8</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>Other ingredients</td>
<td>Trade Secret</td>
<td>46.0%</td>
</tr>
<tr>
<td>Tetrachloroisophthalonitrile</td>
<td>Chlorothalonil</td>
<td>1897-45-6</td>
<td>54.0%</td>
</tr>
</tbody>
</table>

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

### 4. FIRST AID MEASURES

Have the product container, label or Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

**Ingestion:** If swallowed: Call Syngenta (800-888-8372), a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so after calling 800-888-8372 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**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 5 minutes, then continue rinsing eye. Call Syngenta (800-888-8372), a poison control center or doctor for 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 Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

**Inhalation:** If inhaled: 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 Syngenta (800-888-8372), a poison control center or doctor for further treatment advice.

**Most important symptoms/effects:**
- Allergic skin reaction
- Respiratory irritation

**Indication of immediate medical attention and special treatment needed:**
- There is no specific antidote if this product is ingested.
- Treat symptomatically.
- Persons suffering a temporary allergic reaction may respond to treatment with antihistamines or steroid creams and/or systemic steroids.
5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:
Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:
During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Special protective equipment and precautions for firefighters:
Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:
Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:
Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

Precautions for safe handling:
Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Conditions for safe storage, including any incompatibilities:
Store locked up.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Occupational Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene Glycol</td>
<td>Not Established</td>
<td>Not Established</td>
<td>10 mg/m³ TWA</td>
<td>AIHA</td>
</tr>
<tr>
<td>Silica, amorphous</td>
<td>80 mg/m³/% SiO2 TWA</td>
<td>Not Established</td>
<td>6 mg/m³ TWA</td>
<td>NIOSH</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Chlorothalonil</td>
<td>Not Established</td>
<td>Not Established</td>
<td>0.1 mg/m³ TWA</td>
<td>Syngenta</td>
</tr>
</tbody>
</table>

Appropriate engineering controls:
Use effective engineering controls to comply with occupational exposure limits (if applicable).

Individual protection measures:
Ingestion:
Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact:
Where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Skin Contact:
Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.

Inhalation:
A respirator is not normally required when handling this substance. Use effective engineering controls to comply with occupational exposure limits.

In case of emergency spills, use a NIOSH approved respirator with any N, R, P or HE filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light gray liquid
Odor: Slight
Odor Threshold: Not Available
pH: 6.5 - 8.5
Melting point/freezing point: Not Applicable
Initial boiling point and boiling range: 212 °F
Flash Point (Test Method): Not Applicable
Flammable Limits (% in Air): Not Available
Flammability: Not Applicable
Vapor Pressure: Chlorothalonil 0.00000057mmHg @ 77°F (25°C)
Vapor Density: Not Available
Relative Density: 1.34 g/ml (water = 1)
Solubility (ies): Chlorothalonil 0.81 mg/l @ 77°F (25°C)
Partition coefficient: n-octanol/water: Not Available
Autoignition Temperature: Not Applicable
Decomposition Temperature: Not Available
Viscosity: Not Available
Other: None

10. STABILITY AND REACTIVITY

Reactivity: Not reactive.
Chemical stability: Stable under normal use and storage conditions.
Possibility of hazardous reactions: Material is not known to polymerize.
11. TOXICOLOGICAL INFORMATION

Health effects information
Likely routes of exposure: Dermal, Inhalation

Symptoms of exposure: Respiratory irritation

Delayed, immediate and chronic effects of exposure: Possible carcinogenicity, Allergic skin reaction, Respiratory system effects

Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

- **Ingestion:** Oral (LD50 Female Rat): 2000 mg/kg body weight
- **Dermal:** Dermal (LD50 Rat): > 2000 mg/kg body weight
- **Inhalation:** Inhalation (LC50 Rat): > 0.704 mg/l air - 4 hours

Eye Contact: Moderately Irritating (Rabbit)
Skin Contact: Mildly Irritating (Rabbit)
Skin Sensitization: A skin sensitizer.

Reproductive/Developmental Effects
Chlorothalonil: Did not show reproductive toxicity effects in animal experiments. Did not show teratogenic effects in animal experiments.

Chronic/Subchronic Toxicity Studies
Chlorothalonil: In dogs, 1 year administration caused a significant decrease in body weight gain and increases in absolute liver and kidney weights.

Neurotoxicity: No evidence in regulatory studies.

Carcinogenicity
Chlorothalonil: Chlorothalonil causes kidney tumors in rats and mice via a nongentoxic mode of action secondary to target organ toxicity. Did not show mutagenic effects in animal experiments. IARC identifies chlorothalonil as a 2B carcinogen (possibly carcinogenic to humans).

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>NTP/IARC/OSHA Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-Propanediol</td>
<td>No</td>
</tr>
<tr>
<td>Silica, amorphous</td>
<td>IARC Group 3</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>No</td>
</tr>
<tr>
<td>Tetrachloroisophthalonitrile</td>
<td>IARC Group 2B</td>
</tr>
</tbody>
</table>

Other Toxicity Information
Studies on rats and mice have suggested that technical chlorothalonil (97%), when fed at high levels in the diet, may
have oncogenic potential to these laboratory animals. However, neither chlorothalonil nor its metabolites interact with DNA and thus are not mutagenic. Tumor formation has been related to a non-genotoxic mechanism of action for which threshold levels have been established in rats and mice. Comprehensive dietary and worker exposure studies have shown exposure levels for humans to be well below these threshold levels. In addition, surveillance of chlorothalonil plant workers for over twenty years has not demonstrated any increase in oncogenic potential to humans.

Additional Toxicity Information:
May cause irritation of the gastrointestinal tract following ingestion of large amounts.

Mildly irritating to skin. Material rarely causes an allergic reaction.

May be irritating to the respiratory tract. This is rarely observed.

Material is not readily absorbed through intact skin.

Toxicity of Other Components

Other ingredients
Not Established

Propylene Glycol
Reported to cause central nervous system depression (anesthesia, dizziness, confusion), headache and nausea. Also, eye irritation may occur with lacrimation but no residual discomfort or injury. Prolonged contact to skin may cause mild to moderate irritation and possible allergic reactions. Chronic dietary exposure caused kidney and liver injury in experimental animals.

Silica, amorphous
Dusts in high concentrations may cause skin, eye and respiratory tract irritation.

Target Organs

Active Ingredients
Chlorothalonil: Lung, kidney

Inert Ingredients
Other ingredients: Not Established

Propylene Glycol: CNS, kidney, liver

Silica, amorphous: Skin, eye, respiratory tract

12. ECOLOGICAL INFORMATION

Eco-Acute Toxicity
Chlorothalonil:
Green Algae 5-day EC50 190 ppb
Bird (Mallard Duck) LD50 Oral > 4640 mg/kg
Invertebrate (Water Flea) 48-hour EC50 70 ppb
Fish (Rainbow Trout) 96-hour LC50 47 ppb

Environmental Fate
Chlorothalonil:
The information presented here is for the active ingredient, chlorothalonil.
Low bioaccumulation potential. Not persistent in soil or water. Low mobility in soil. Sinks in water (after 24 h).
13. DISPOSAL CONSIDERATIONS

Disposal:
Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable
Listed Waste: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification
Ground Transport - NAFTA
Non-Bulk: Not regulated
Tank Truck:
Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Chlorothalonil), Marine Pollutant
Hazard Class or Division: Class 9
Identification Number: UN 3082
Packing Group: PG III

Comments
Water Transport - International
Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Chlorothalonil), Marine Pollutant
Hazard Class or Division: Class 9
Identification Number: UN 3082
Packing Group: PG III

Air Transport
Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Chlorothalonil)
Hazard Class or Division: Class 9
Identification Number: UN 3082
Packing Group: PG III

15. REGULATORY INFORMATION

Pesticide Registration:
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. Following is the hazard information as required on the pesticide label:

Caution: Harmful if absorbed through skin. Harmful if inhaled. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves (such as natural rubber, Selection Category A). Remove and wash contaminated clothing before reuse. Avoid breathing spray mist. Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

EPA Registration Number(s):
50534-209-100

EPCRA SARA Title III Classification:
Section 311/312 Hazard Classes:
Acute Health Hazard
Chronic Health Hazard
Section 313 Toxic Chemicals: Chlorothalonil 54.0% (CAS No. 1897-45-6)

California Proposition 65:
ATTENTION: This product can expose you to chemicals including chlorothalonil, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

CERCLA/SARA 304 Reportable Quantity (RQ):
None

RCRA Hazardous Waste Classification (40 CFR 261):
Not Applicable

TSCA Status:
Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA Hazard Ratings</th>
<th>HMIS Hazard Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health:</td>
<td>Health:</td>
</tr>
<tr>
<td>Flammability:</td>
<td>Flammability:</td>
</tr>
<tr>
<td>Instability:</td>
<td>Reactivity:</td>
</tr>
</tbody>
</table>

Syngenta Hazard Category: D,S

For non-emergency questions about this product call:
1-800-334-9481

Original Issued Date: 11/12/1998
Revision Date: 9/12/2018
Section(s) Revised: 15

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.
<table>
<thead>
<tr>
<th>Attachments</th>
</tr>
</thead>
<tbody>
<tr>
<td>medallion 07082015.pdf</td>
</tr>
</tbody>
</table>
1. PRODUCT IDENTIFICATION

Product identifier on label: MEDALLION® Fungicide
Product No.: A7850D
Use: Fungicide
Manufacturer: Syngenta Crop Protection, LLC
Post Office Box 18300
Greensboro NC 27419
Manufacturer Phone: 1-800-334-9481
Emergency Phone: 1-800-888-8372

2. HAZARDS IDENTIFICATION

Classifications: Carcinogenicity: Category 1A
Specific Target Organ Toxicity: Repeated Category 1
Signal Word (OSHA): Danger
Hazard Statements: May cause cancer
Causes damage to organs through prolonged or repeated exposure

Precautionary Statements: Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe mist, vapors, spray.
Wash hands and face thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves, protective clothing, eye protection.
If exposed or concerned: Get medical advice/attention.
Get medical advice if you feel unwell.
Store locked up.
Dispose of contents and container in accordance with local regulations.

Other Hazard Statements: May form combustible dust concentrations in air.
MEDALLION® Fungicide

Date: 7/8/2015
Replaces: 11/4/2014

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Common Name</th>
<th>CAS Number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline Silica, Quartz and Cristobalite</td>
<td>Crystalline Silica, Quartz and Cristobalite</td>
<td>14808-60-7</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>Talc</td>
<td>Talc</td>
<td>14807-96-6</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>Other ingredients</td>
<td>Trade Secret</td>
<td></td>
</tr>
<tr>
<td>4-[(2,2-difluoro-1,3-benzodioxol-4-yl)-1H-pyrrole-3-carbonitrile</td>
<td>Fludioxonil</td>
<td>131341-86-1</td>
<td>50%</td>
</tr>
</tbody>
</table>

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

Have the product container, label or Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

**Ingestion:** If swallowed: Call Syngenta (800-888-8372), a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so after calling 800-888-8372 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**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 5 minutes, then continue rinsing eye. Call Syngenta (800-888-8372), a poison control center or doctor for 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 Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

**Inhalation:** If inhaled: 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 Syngenta (800-888-8372), a poison control center or doctor for further treatment advice.

**Most important symptoms/effects:**
- Not Applicable

**Indication of immediate medical attention and special treatment needed:**
- There is no specific antidote if this product is ingested.
- Treat symptomatically.

5. FIRE FIGHTING MEASURES

**Suitable (and unsuitable) extinguishing media:**
- Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

**Specific Hazards:**
- During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

See also Sec. 7.

**Special protective equipment and precautions for firefighters:**
- Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.
6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:
Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:
Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Sweep up material and place in a compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

Precautions for safe handling:
This material would not normally become readily charged.

This material is capable of forming flammable dust clouds in air, which, if ignited, can produce a dust cloud explosion. Flames, hot surfaces, mechanical sparks and electrostatic discharges can serve as ignition sources for this material. Electrical equipment should be compatible with the flammability characteristics of this material. The flammability characteristics will be made worse if the material contains traces of flammable solvents or is handled in the presence of flammable solvents.

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Conditions for safe storage, including any incompatibilities:
Store locked up.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Occupational Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline Silica, Quartz and Cristobalite</td>
<td>10 mg/m³/(%SiO₂+2) (respirable dust)</td>
<td>0.025 mg/m³ (respirable silica)</td>
<td>0.05 mg/m³ (respirable dust)</td>
<td>NIOSH</td>
</tr>
<tr>
<td>Talc</td>
<td>20 mppcf (containing &lt;1% quartz) TWA</td>
<td>2 mg/m³ (respirable; &lt;1% crystalline silica) TWA</td>
<td>2 mg/m³ (respirable; &lt;1% quartz) TWA</td>
<td>NIOSH</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Fludioxonil</td>
<td>Not Established</td>
<td>Not Established</td>
<td>5 mg/m³ TWA</td>
<td>Syngenta</td>
</tr>
</tbody>
</table>

Appropriate engineering controls:
Use effective engineering controls to comply with occupational exposure limits (if applicable).

Individual protection measures:
MEDALLION® Fungicide

Date: 7/8/2015
Replaces: 11/4/2014

Ingestion:

Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact:

Where eye contact is likely, use dust-proof chemical goggles.

Skin Contact:

Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.

Inhalation:

A particulate filter respirator may be necessary until effective engineering controls are installed to comply with occupational exposure limits. Use NIOSH certified respirator with any N, R, P or HE filter. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-white powder
Odor: Sweet, soap-like
Odor Threshold: Not Available
pH: 8 - 9 (1% solution in H2O @ 77°F (25°C))
Melting point/freezing point: 392 °F
Initial boiling point and boiling range: Not Available
Flash Point (Test Method): Not Applicable
Flammable Limits (% in Air): Not Available
Flammability: Not Applicable
Vapor Pressure: Fludioxonil 2.9 x 10(-9) mmHg @ 77°F (25°C)
Vapor Density: Not Available
Relative Density: 0.37 g/cm³
Solubility (ies): Fludioxonil 1.8 mg/l @ 77°F (25°C)
Partition coefficient: n-octanol/water: Not Available
Autoignition Temperature: Not Available
Decomposition Temperature: Not Available
Viscosity: Not Available
Other: None

10. STABILITY AND REACTIVITY

Reactivity: Not reactive.
Chemical stability: Stable under normal use and storage conditions.
Possibility of hazardous reactions: Will not occur.
Conditions to Avoid: None known.
MEDALLION® Fungicide

Incompatible materials: None known.
Hazardous Decomposition Products: Not Available

11. TOXICOLOGICAL INFORMATION

Health effects information
Likely routes of exposure: Dermal, Inhalation
Symptoms of exposure: Not Applicable
Delayed, immediate and chronic effects of exposure: Possible carcinogenicity

Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

- Ingestion: Oral (LD50 Rat): > 5050 mg/kg body weight
- Dermal: Dermal (LD50 Rabbit): > 2020 mg/kg body weight
- Inhalation: Inhalation (LC50 Rat): > 6.5 mg/l air - 4 hours
- Eye Contact: Slightly Irritating (Rabbit)
- Skin Contact: Slightly Irritating (Rabbit)
- Skin Sensitization: Not a Sensitizer (Guinea Pig)

Reproductive/Developmental Effects
Fludioxonil: Delayed development at doses causing maternal toxicity.

Chronic/Subchronic Toxicity Studies
Fludioxonil: Liver and kidney toxicity at high dose levels.

Carcinogenicity
Fludioxonil: Marginal increase (7%) of liver tumors (female, rats: 3,000 ppm); Within historical control range (1 to 10%).

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>NTP/IARC/OSHA Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline Silica, Quartz and Cristobalite</td>
<td>IARC 1; ACGIH A2</td>
</tr>
<tr>
<td>Talc</td>
<td>IARC Group 3</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>No</td>
</tr>
<tr>
<td>4-(2,2-difluoro-1,3-benzodioxol-4-yl)-1H-pyrrole-3-carbonitrile</td>
<td>No</td>
</tr>
</tbody>
</table>

Other Toxicity Information
None

Toxicity of Other Components
Crystalline Silica, Quartz and Cristobalite
Chronic inhalation exposure to crystalline silica is known to cause silicosis and pulmonary fibrosis in humans. Experimental animals exposed to crystalline silica developed respiratory tract cancers.

Other ingredients
Not Applicable
MEDALLION® Fungicide

Target Organs

Active Ingredients
Fludioxonil: Liver, kidney

Inert Ingredients
Crystalline Silica, Quartz and Cristobalite: Respiratory tract
Other ingredients: Not Applicable
Talc: Respiratory tract

12. ECOLOGICAL INFORMATION

Eco-Acute Toxicity
Fludioxonil:
- Fish (Rainbow Trout) 96-hour LC50 0.47 ppm
- Green Algae 5-day EC50 0.087 ppm
- Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 0.9 ppm
- Bird (Bobwhite Quail) 14-day LD50 > 2000 mg/kg

Environmental Fate
Fludioxonil:
The information presented here is for the active ingredient, fludioxonil.

13. DISPOSAL CONSIDERATIONS

Disposal:
Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable
Listed Waste: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification
Ground Transport - NAFTA
Not regulated

Comments
Water Transport - International
Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S. (Fludioxonil), Marine Pollutant
Hazard Class: Class 9
Identification Number: UN 3077
Packing Group: PG III

Air Transport
Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S. (Fludioxonil)
Hazard Class: Class 9
15. REGULATORY INFORMATION

Pesticide Registration:

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. Following is the hazard information as required on the pesticide label:

Caution: Causes moderate eye irritation. Harmful if absorbed through skin. 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. Remove and wash contaminated clothing before reuse.

EPA Registration Number(s):
100-769

EPCRA SARA Title III Classification:
Section 311/312 Hazard Classes: Acute Health Hazard
Section 313 Toxic Chemicals: None

California Proposition 65:
This Product contains trace amounts of chemicals, known to the State of California to cause cancer, as unintended impurities resulting from other entities manufacturing or processing operations which Syngenta cannot control.

CERCLA/SARA 304 Reportable Quantity (RQ):
None

RCRA Hazardous Waste Classification (40 CFR 261):
Not Applicable

TSCA Status:
Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA Hazard Ratings</th>
<th>HMIS Hazard Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health: 1</td>
<td>Health: 1</td>
</tr>
<tr>
<td>Flammability: 1</td>
<td>Flammability: 1</td>
</tr>
<tr>
<td>Instability: 0</td>
<td>Reactivity: 0</td>
</tr>
</tbody>
</table>

Syngenta Hazard Category: B

For non-emergency questions about this product call:
1-800-334-9481

Original Issued Date: 6/28/1994
Revision Date: 7/8/2015
Section(s) Revised: 2, 4, 11
The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.
<table>
<thead>
<tr>
<th><strong>WinField United</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Item:</strong> <a href="#">Pesticides:Oryzalin 4 Pro</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Attachments</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>mpDC5001.pdf</td>
</tr>
</tbody>
</table>
1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: SureGuard® SC Herbicide
EPA Reg. No.: 71368-114
Product Type: Herbicide
Company Name: Nufarm Americas Inc
11901 S. Austin Avenue
Alsip, IL 60803
1-800-345-3330

Telephone Numbers: For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident,
Call CHEMTREC Day or Night: 1-800-424-9300
For Medical Emergencies Only, Call 1-877-325-1840

This product is an EPA FIFRA registered pesticide. Some classifications on this SDS are not exactly the same as on the FIFRA label. Certain sections are superseded by federal law governed by EPA for a registered pesticide. Please see Section 15. REGULATORY INFORMATION for explanation.

2. HAZARDS IDENTIFICATION

PHYSICAL HAZARDS:
Not Hazardous

HEALTH HAZARDS:
Not Hazardous

ENVIRONMENTAL HAZARDS:
Hazardous to aquatic environment, acute Category 1
Hazardous to aquatic environment, chronic Category 1

SIGNAL WORD
No Signal Word

HAZARD STATEMENTS
Very toxic to aquatic life with long-lasting effects.

PRECAUTIONARY STATEMENTS
Avoid unintended release to the environment.
Collect spillage.
Dispose of contents and container in accordance with local, state and federal regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>COMPONENTS</th>
<th>CAS NO.</th>
<th>% BY WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flumioxazin</td>
<td>103361-09-7</td>
<td>42.7 – 45.3</td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>57-55-6</td>
<td>5.7 – 6.3</td>
</tr>
<tr>
<td>Other Ingredients</td>
<td>Trade Secret</td>
<td>Trade Secret</td>
</tr>
</tbody>
</table>

Synonyms: 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoaxazin-6-yl]-4,5,6,7-tetrahydro-1H-isoiindole-1,3(2H)-dione

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.
4. FIRST AID MEASURES

If Swallowed: Do not give any liquid to the person. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. If symptoms develop, get medical advice.

If in Eyes: Hold eye open and rinse slowly and gently with water for several minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation persists. If on Skin or Clothing: Take off contaminated clothing. Wash with soap and water. Get medical attention if irritation or symptoms develop.

If Inhaled: Move person to fresh air. If symptoms develop, get medical advice.

Most Important symptoms/effects, acute and delayed: Skin exposure may cause slight irritation. May cause mild eye irritation.

Indication of Immediate medical attention and special treatment if needed: None expected.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Use extinguishing media suitable for surrounding materials. Dry chemical, carbon dioxide, foam, water spray or fog.

Special Fire Fighting Procedures: Firefighters should wear NIOSH approved self-contained breathing apparatus and full fire-fighting turn out gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

Unusual Fire and Explosion Hazards: If water is used to fight fire, contain runoff, using dikes to prevent contamination of water supplies. Dispose of fire control water later.

Hazardous Decomposition Materials (Under Fire Conditions): May produce gases such as fluorine compounds, and oxides of carbon and nitrogen.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

Environmental Precautions: Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

Methods for Containment: Dike spill using absorbent or impervious materials such as earth, sand or clay. Collect and contain contaminated absorbent and dike material for disposal.

Methods for Cleanup and Disposal: Pump free liquid into an appropriate container. Absorb residual with inert absorbent material. Wash entire spill area with a detergent slurry, absorb and sweep into container for disposal. Decontaminate tools and equipment following cleanup. See Section 13: DISPOSAL CONSIDERATIONS for more information.

Other Information: Large spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

7. HANDLING AND STORAGE

HANDLING:
Avoid contact with skin, eyes or clothing. Do not breathe spray mist or vapors. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing/Personal Protective Equipment (PPE) immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

STORAGE:
Keep pesticide in original container. Store in a cool, dry, secure place. Do not put formulation or dilute spray solution into food or drink containers. Do not contaminate food or foodstuffs. Do not store or transport near feed or food. Not for use or storage in or around the home. For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC (800) 424-9300.

Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:
Where engineering controls are indicated by specific use conditions or a potential for excessive exposure, use local exhaust ventilation at the point of generation.
SAFETY DATA SHEET
SureGuard® SC Herbicide

Personal Protective Equipment:
Eye/Face Protection: To avoid contact with eyes, wear goggles or safety glasses.
Skin Protection: To avoid contact with skin wear long-sleeved shirt and long pants, shoes plus socks, and chemical-resistant gloves made of any waterproof material. Washing facilities should be readily accessible to the work area.
Respiratory Protection: Not normally required. If vapors or mists or dusts exceed acceptable levels, wear NIOSH approved air-purifying respirator with cartridges/canisters approved for use against pesticides.
General Hygiene Considerations: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: 1) do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored; 2) wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics or using the toilet.

Exposure Guidelines:

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA</th>
<th>ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TWA</td>
<td>STEL</td>
</tr>
<tr>
<td>Flumioxazin</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>10 (WEEL)</td>
<td>NE</td>
</tr>
<tr>
<td>NE = Not Established</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off white/milky liquid
Odor: Moderately sour
Odor threshold: No data available
pH: 6.38 (1% w/w dispersion in DIW @ 25º C)
Melting point/freezing point: No data available
Initial boiling point and boiling range: No data available
Flash point: Aqueous composition; >212º F (>100º C)
Evaporation rate: No data available
Flammability: No data available
Upper/lower flammability or explosive limits: No data available
Vapor pressure: No data available
Vapor density: No data available
Relative density: 1.157 g/mL @ 24º C
Solubility(ies): No data available
Partition coefficient: n-octanol/water: No data available
Autoignition temperature: No data available
Decomposition temperature: No data available
Viscosity: 487.2 cPs @ 24º C; 266.8 cPs @ 42 º C
(50 RPM, Brookfield)

Note: Physical data are typical values, but may vary from sample to sample. A typical value should not be construed as a guaranteed analysis or as a specification.

10. STABILITY AND REACTIVITY

Reactivity: Not reactive
Chemical Stability: This material is stable under normal handling and storage conditions.
Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
Conditions to Avoid: Excessive heat. Do not store near heat or flame.
Incompatible Materials: Strong oxidizing agents, such as chlorates, nitrates, and peroxides.
Hazardous Decomposition Products: Under fire conditions, may produce gases such as fluorine compounds, and oxides of carbon and nitrogen.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, Skin contact, Eye contact
Eye Contact: May cause mild irritation. Non-irritating to the eye based on toxicity studies.
Skin Contact: May cause mild irritation on prolonged or repeated exposure. Non-irritating to slight/mild irritation to the skin based on toxicity studies.
Ingestion: May be harmful if swallowed in large amounts. Low toxicity if ingested.
Inhalation: May cause minor irritation to the respiratory tract. Low toxicity if inhale
Symptoms of Exposure: None expected.
Delayed, immediate and chronic effects of exposure: Adverse effects observed in animals exposed to high doses of flumioxazin technical for long periods of time included effects on blood, liver and kidney.

Toxicological Data:
Data from laboratory studies conducted are summarized below:

- Oral: Rat LD₅₀: > 5,000 mg/kg (female)
- Dermal: Rat LD₅₀: >5,000 mg/kg
- Inhalation: Rat 4-hr LC₅₀: >2.10 mg/L (No mortality at highest dose tested)
- Eye Irritation: Rabbit: Non-irritating
- Skin Irritation: Rabbit: Slightly irritating (PDII=0.1)
- Skin Sensitization: Not a contact sensitizer in the Local Lymph Node Assay (LLNA) in Mice.

Subchronic (Target Organ) Effects: Compound related effects of Flumioxazin Technical noted in rats following subchronic exposures at high dose levels were hematotoxicity including anemia, and increases in liver, spleen, heart, kidney and thyroid weights. In dogs, the effects produced at high dose levels included a slight prolongation in activated partial thromboplastin time, increased cholesterol and phospholipid, elevated alkaline phosphatase, increased liver weights and histological changes in the liver. The lowest no-observable-effect-level (NOEL) in subchronic studies was 30 ppm in the three-month toxicity study in rats.

Carcinogenicity / Chronic Health Effects: Repeated exposures to Flumioxazin Technical in animals have produced anemia and other blood formation changes, organ weight changes and changes in blood chemistry. Flumioxazin Technical did not produce cancer in life-time feeding studies in laboratory animals.

Reproductive Toxicity: Reproductive effects were observed in rats exposed to high levels of Flumioxazin Technical.

Developmental Toxicity: Birth defects were produced in the offspring of female rats exposed to Flumioxazin Technical. No effects were observed in rabbits.

Genotoxicity: Flumioxazin technical does not present a genetic hazard.

Assessment Carcinogenicity: None listed with ACGIH, IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Flumioxazin technical is practically non-toxic to bees and avian species. It is slightly to moderately toxic to freshwater fish and moderately to highly toxic to aquatic invertebrates.

From studies conducted on Flumioxazin active ingredient:

- 96-hour LC₅₀ RainbowTrout: 2.3 mg/L Bobwhite Quail Oral LD₅₀: >2,250 mg/kg
- 96-hour LC₅₀ Bluegill Sunfish: > 21 mg/L Bobwhite Quail 8-day Dietary LC₅₀: >5,620 ppm
- 48-hour EC₅₀ Daphnia Magna: > 5.5 mg/L Mallard Duck Oral LD₅₀: >2,250 mg/kg
- 96-hour LC₅₀ Sheepshead Minnow: >4.7 mg/L Mallard Duck 8-day Dietary LC₅₀: >5,620 ppm
- 96-hour LC₅₀ Mysid Shrimp: 0.23 mg/L
- Acute Contact LC₅₀ Honeybee: 105 µg/bee

Environmental Fate:
Flumioxazin degrades rapidly in water and soil. Dissipation occurs by a combination of hydrolysis and microbial oxidation. Although flumioxazin dissipates rapidly, discrete intermediates do not accumulate and the ultimate environmental products are incorporated into soil organic matter and carbon dioxide. Based on column leaching studies and the short aerobic soil half-life, the potential for flumioxazin or its degradation products to leach in field agricultural soils is low. The low use rate and rapid soil dissipation results in low carryover potential to rotational crops.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:
Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide is a violation of Federal law.

Container Handling and Disposal:
Nonrefillable Containers 5 gallons or less: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.
Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

**Nonrefillable containers larger than 5 gallons:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. If recycling or reconditioning not available, puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**Refillable containers larger than 5 gallons:** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

### 14. TRANSPORTATION INFORMATION

Follow the precautions indicated in Section 7: HANDLING AND STORAGE of this MSDS.

**DOT**

- **< 119 Gallons per finished container**
  - Non Regulated

- **≥ 119 Gallons per finished container**
  - UN 3082, Environmentally hazardous substance, liquid, n.o.s., (Flumioxazin), 9, III, Marine Pollutant

**IMO / IMDG**

- UN 3082, Environmentally hazardous substance, liquid, n.o.s., (Flumioxazin), 9, III, Marine Pollutant

**IATA**

- UN 3082, Environmentally hazardous substance, liquid, n.o.s., (Flumioxazin), 9, III, Marine Pollutant

### 15. REGULATORY INFORMATION

**EPA FIFRA INFORMATION**

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

Harmful if inhaled or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing.

**U.S. FEDERAL REGULATIONS**

**TSCA Inventory:** This product is exempted from TSCA because it is solely for FIFRA regulated use.

**SARA Hazard Notification/Reporting:**

**Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370):**

- Chronic Health

**Section 313 Toxic Chemical(s):**

- None
SAFETY DATA SHEET
SureGuard® SC Herbicide

Reportable Quantity (RQ) under U.S. CERCLA:
None

RCRA Waste Code:
Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

State Information:
Other state regulations may apply. Check individual state requirements.

California Proposition 65: Not Listed.

16. OTHER INFORMATION

National Fire Protection Association (NFPA) Hazard Rating:
Rating for this product: Health: 1    Flammability: 1    Reactivity: 0
Hazards Scale: 0 = Minimal    1 = Slight    2 = Moderate    3 = Serious    4 = Severe

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-ACCEPTED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of Federal law to use a pesticide product in any manner not prescribed on the EPA-accepted label.

Although the information and recommendations set forth herein (hereinafter “Information”) are presented in good faith and believed to be correct as of the date hereof, Nufarm Americas Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Nufarm Americas Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS AND ALL SUCH WARRANTIES ARE HEREBY SPECIFICALLY DISCLAIMED.

Date of Issue: May 3, 2016

Supersedes: NEW

May 3, 2016
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<table>
<thead>
<tr>
<th>Item:</th>
<th>Pesticides:Prosecutor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attachments</td>
<td>mp8JK008.pdf</td>
</tr>
</tbody>
</table>
Cornerstone® Plus
(EPA Reg # 1381-192)

SECTION 1: IDENTIFICATION

Product Name: Cornerstone® Plus
EPA Registration #: 1381-192
Product ID/Unity #: 10016584, 10109578, 10109579, 10109580, 10109581, 1400088
Common Name: Glyphosate herbicide
Chemical Description: Isopropylamine salt of Glyphosate
Recommended Uses: Agricultural Herbicide. See product label for complete list of uses and use sites.
Restrictions for Use: See product label for information regarding restrictions on the use of this product.

Manufactured For: WINFIELD SOLUTIONS, LLC
P. O. Box 64589
St. Paul, MN 55164-0589

MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-9352 (24hrs)
Non-Emergency Business Inquiries: 1-855-494-6343
Mon – Fri 8am – 5pm (Central Standard Time)

FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL:
CHEMTREC 1-800-424-9300 (24 hours)

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Clear pale yellow to amber liquid with no to slight amine odor. Moderate eye irritant. May react with metals such as galvanized or unlined steel to produce hydrogen gas which could form a highly combustible gas mixture.

POTENTIAL HEALTH EFFECTS:
Eyes: May cause moderate eye irritation.
Skin: Short-term contact with skin may cause mild irritation. Prolonged contact with skin may lead to swelling, redness and blistering.
Inhalation: Inhalation of mist may cause mild irritation of the upper respiratory tract.
Ingestion: Ingestion may cause irritation of the digestive tract and lead to colitis.
Preexisting Conditions: Preexisting skin conditions may be aggravated by exposure to mist or spray.

*Carcinogenicity
NTP: Not listed
IARC: 2A Probable carcinogen to humans (Glyphosate)
OSHA: Not listed

*See Section 11 for further information

OSHA HCS 2012 CLASSIFICATION: Eye Irritation Category 2B; Acute Inhalation Toxicity Category 4

SIGNAL WORD: WARNING

HAZARD STATEMENTS:
Causes eye irritation.
Harmful if inhaled.

Percent of product with unknown toxicity: 0%

Continued on next page
PRECAUTIONARY STATEMENTS:

Prevention: Wash hands thoroughly after handling. Avoid breathing mist or spray. Use only outdoors or in a well-ventilated area.

Response: If in eyes: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison control center (1-877-424-7452) or doctor for treatment advice if you feel unwell.

Storage: See section 7 for storage information.

Disposal: See section 13 for disposal information.

SECTION 4: FIRST AID MEASURES

Inhalation: Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.

Ingestion: Seek medical attention or call a poison control center for treatment advice. Do not induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Eyes: Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention if irritation occurs.

Skin: Remove contaminated clothing and wash before re-using. Flush skin with water and then wash with soap and water. Seek medical attention if irritation persists.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use water spray, foam or dry chemical. Foam or dry chemical extinguishing systems are recommended to prevent environmental damage due to water run-off.

Special Fire Fighting Procedures: Wear NIOSH/MSHA approved self-contained breathing apparatus and full bunker gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Avoid breathing vapors; keep upwind.

Hazardous Combustion Products: Carbon monoxide, nitrogen oxides and phosphorous oxides

Unusual Fire and Explosion Hazards: May decompose in fire due to releasing irritating or toxic gases.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

Environmental Precautions: Keep spilled product from entering sewers or waterways.

Methods for Containment: Contain spilled product by diking area with sand or earth.

Methods for Clean-up: Cover contained spill with an inert absorbent material such as sand, vermiculite or other appropriate material. Vacuum, scoop, or sweep up material and place in a container for disposal. Do not place spilled material back in original container.

Other Information: None known.
SECTION 7: HANDLING AND STORAGE

Handling: RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the pesticide product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Ensure adequate ventilation. Immediately clean up spills that occur during handling. Keep containers closed when not in use. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Storage: Store in cool, dry areas away from children, feed and food products and sources of heat. Store in original container with lid tightly closed. Store above 25°F (-5°C). If crystallized, warm to 80-90°F and re-dissolve by shaking container before using product. See pesticide product label for additional storage information.

Minimum Storage Temperature: 25°F

Other Precautions: Consult Federal, state and local laws and regulations pertaining to storage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Exposure Guidelines</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>NIOSH REL</th>
</tr>
</thead>
<tbody>
<tr>
<td>No components have exposure guidelines</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTE TO END USERS: PERSONAL PROTECTIVE EQUIPMENT (PPE) AND CLOTHING LISTED IN THIS SECTION IS FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD REFER TO THE PESTICIDE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT (PPE) AND CLOTHING.

Respiratory Protection: Wear respiratory protection if inadequate ventilation. Wear a NIOSH-certified (or equivalent) TC23C Chemical/Mechanical type filter system to remove a combination of particles, gas and vapors.

Engineering Controls: Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.

Protective Gloves: Wear chemical resistant gloves.

Eye Protection: Wear chemical goggles or safety glasses and full-face shield. Contact lenses are not eye protective devices. An emergency eyewash or water supply should be readily accessible to the work area.

Other Protective Clothing or Equipment: Wear long sleeve shirt, long pants and shoes plus socks to prevent skin exposure.

Work/Hygienic Practices: Never eat, drink, nor use tobacco in work areas. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical State: Liquid</th>
<th>Specific Gravity (H₂O=1): 1.15 – 1.21 (typical)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor Pressure (mm Hg): Not determined</td>
<td>Density (lbs/gallon): 9.6 – 10.1 lbs/gallon</td>
</tr>
<tr>
<td>Vapor Density (Air=1): Not determined</td>
<td>Melting Point/Freezing Point: Not determined</td>
</tr>
<tr>
<td>Solubility in Water (wt %): Emulsifies</td>
<td>Boiling Point/Range: Not determined</td>
</tr>
<tr>
<td>Viscosity: Not determined</td>
<td>pH: 4.4 – 5.1</td>
</tr>
<tr>
<td>Appearance and odor: Clear pale yellow to amber liquid with no to slight amine odor.</td>
<td>Flash Point: Does not flash</td>
</tr>
</tbody>
</table>

SECTION 10: STABILITY AND REACTIVITY

Reactivity: None known

Chemical Stability: Product is stable at ambient temperature and pressure, under normal storage and handling conditions.

Possibility of Hazardous Reactions: Will not occur

Conditions to Avoid: Temperatures above 115°F (46°C) and below 25°F (-5°C).

Incompatible Materials: Strong oxidizers or bases, mild and galvanized steel.

Hazardous Decomposition Products: Carbon monoxide, Nitrogen oxides, phosphorous oxides
### SECTION 11: TOXICOLOGICAL INFORMATION

#### ACUTE TOXICITY

**Eye Effects:** Causes moderate eye irritation (rabbit)

**Skin Effects:** Short-term contact with skin may cause mild irritation. Prolonged contact with skin may lead to swelling, redness and blistering. LD50 >5,000 mg/kg (male rat). Product is not a sensitizer.

**Acute Inhalation Effects:** LC50 >2.5 mg/L (rat)

**Acute Oral Effects:** LD50 >5,000 mg/kg (rat)

**Specific Target Organ Toxicity:** None known

#### CHRONIC TOXICITY

**Carcinogenicity:** The United States Environmental Protection Agency (EPA) has given glyphosate a Group E classification (evidence of non-carcinogenicity in humans). The Canadian Pest Management Regulatory Agency (PMRA) has classified glyphosate as unlikely to pose a human cancer risk. The European Food Safety Authority (EFSA) has classified glyphosate as unlikely to pose a carcinogenic hazard to humans. In 2015, the International Agency for Cancer Research (IARC) classified glyphosate as a probable human carcinogen Group 2A based on limited human evidence and sufficient evidence in animals.

**Mutagenicity:** None known

**Teratogenicity:** None known

**Reproductive Toxicity:** None known

#### POTENTIAL HEALTH EFFECTS:

**Eyes:** May cause moderate eye irritation.

**Skin:** Short-term contact with skin may cause mild irritation. Prolonged contact with skin may lead to swelling, redness and blistering.

**Inhalation:** Inhalation of mist may cause mild irritation of the upper respiratory tract.

**Ingestion:** Ingestion may cause irritation of the digestive tract and lead to colitis.

### SECTION 12: ECOLOGICAL INFORMATION

#### ENVIRONMENTAL SUMMARY: Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate. The information presented below is on the technical active ingredient, glyphosate.

#### ECOTOXICITY DATA:

- **Fish Acute and Prolonged Toxicity:** Bluegill Sunfish: >24 mg/L (48 hour)
  Rainbow Trout: 140 mg/L (48 hour)

- **Aquatic Invertebrate Acute Toxicity:** *Daphnia magna*: 780 ppm (48 hour)

- **Aquatic Plant Toxicity:** Not determined

- **Bird Acute and Prolonged Toxicity:** Bobwhite quail: Acute LD50 >2,000 mg/kg
  >100 ug/bee (oral); practically non-toxic

#### ENVIRONMENTAL EFFECTS:

- **Soil Absorption/Mobility:** Even though technical glyphosate is highly water soluble it appears that parent glyphosate and its degradation product, aminomethyl phosphonic acid (AMPA), have a low potential to move to ground-water due to their strong adsorptive characteristics demonstrated in laboratory and field studies. However, glyphosate does have the potential to contaminate surface waters due to its aquatic use patterns and erosion via transport of residues adsorbed to soil particles suspended in runoff water. If glyphosate were to reach surface water it would be resistant to hydrolysis and aqueous photolysis.

- **Persistence and degradability:** Glyphosate technical is readily degraded by soil microbes to aminomethyl phosphonic acid (AMPA), which is degraded to CO2, although at a slower rate than parent glyphosate.

- **Bioaccumulative Potential:** Not determined

- **Other adverse effects:** Not determined
### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste:** Dispose of in accordance with applicable Federal, state and local laws and regulations.

**Container:** Triple rinse and recycle the container or dispose of in accordance with Federal, state and local laws and regulations.

*See pesticide product label for full instructions on disposal.*

**RCRA Characteristics:** It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

### SECTION 14: TRANSPORT INFORMATION

**DOT:** This product is not regulated by the U.S. Department of Transportation as a hazardous material for ground shipment.

**IMDG:** Not determined

**IATA:** Not determined

**TDG:** Not determined

### SECTION 15: REGULATORY INFORMATION

**TSCA Inventory:** This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA regulated use.

**SARA Title III Information:**
- **Section 302 - Extremely hazardous substances:** None listed
- **Section 311/312 – Hazard Categories:** Immediate (Acute)
- **Section 313 – The following chemicals are subject to the reporting requirements of Section 313 of Title III, Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372:** None listed

**CERCLA:** This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):
- None listed

**EPA Registration Information:** 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. Following is the hazard information as required on the pesticide label:

**CAUTION**
- Causes moderate eye irritation.
- Do not get in eyes, on skin, or on clothing.
- Wash thoroughly with soap and water after handling.
- Remove contaminated clothing and wash clothing before re-use.
- **DOMESTIC ANIMALS:** This product is considered to be relatively non-toxic to dogs and other domestic animals; however, ingestion of this product or large amounts of freshly sprayed vegetation may result in temporary gastrointestinal irritation (vomiting, diarrhea, colic, etc.). If such symptoms are observed, provide the animal with plenty of fluids to prevent dehydration. Call a veterinarian if symptoms persist for more than 24 hours.

**California Proposition 65:** This product does not contain any chemicals known to the state of California to cause cancer and/or reproductive harm.

**U.S. State Worker and Community Right-To-Know (RTK) Information (CT, IL, MA, MN, NH, NJ, PA, RI):**
- **Chemical Name**
- **CAS #**
- **State(s)**
  - No components listed

**Canadian Domestic Substances List:** Not determined

**WHMIS Classification:** This product is not registered for use in Canada. WHMIS classification is not determined.
### SECTION 16: OTHER

**Disclaimer:** The information presented herein is based on available data from reliable sources and is correct to the best of WinField Solutions' knowledge. WinField Solutions, LLC makes no warranty, express nor implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

Revision Date: June 13, 2017  
Supersedes document dated: July 12, 2013  
Sections Revised: 2, 11, 16
Supplier: WinField United

Capitol Region Purchasing Council
241 Main Street, 4th Floor
Hartford, CT 06106

STANDARD BID AND RFP TERMS AND CONDITIONS

PURCHASING COUNCIL PURPOSE
The Capitol Region Purchasing Council ("Council") is a purchasing cooperative, acting under the auspices of the Capitol Region Council of Governments, which attempts to provide volume-based discounts to its Member Agency base through various cooperative procurement initiatives. To date, some 115 towns, boards of education and agencies across the State (38 of which are located in the Greater Hartford area) are eligible to take advantage of the Council’s services.

BID FORMS/SUBMISSION OF BIDS
The Council exclusively uses Bid Sync for the notification and dissemination of all solicitations. The receipt of solicitations through any other company may result in your receipt of incomplete specifications and/or addenda which could ultimately render your bid non-compliant. The Council accepts no responsibility for the receipt and/or notification of solicitations through any other company.

No oral, telegraphic or telephonic submittal will be accepted. IFB’s, RFP’s, RFQ’s and RFI’s shall be submitted in electronic format via BidSync. All Invitations For Bid (IFB), Requests For Proposals (RFP), Requests For Quotes (RFQ), Requests For Information (RFI) submitted electronically via BidSync shall remain locked until official date and time of opening as stated in the Special Terms and Conditions of the IFB, RFP, RFQ and/or RFI. A formal, in-person bid opening will not be held.

EXCEPTIONS TO SPECIFICATIONS
Vendors are directed to make sure that they understand the terms and conditions as specified in this Invitation for Bid. Unless exceptions to any of the terms and conditions, including pricing, are specified as part of the bid response, it will be expected that all terms and conditions expressed herein are acceptable and shall govern resulting contracts. Any variance from specifications, including product substitutes (as well as replacements for discontinued items) and pricing units (pounds, 50 lb bags vs. 100 lb bags, etc.) must be clearly noted in the vendor’s bid response.

SUBSTITUTION FOR NAMED BRANDS
Should brand name items appear in this bid, the bidder must make available specifications on any substitutions, and explain how the substitution compares with the named brand’s specifications.

BID AWARD
A bid award shall be made by each respective Member Agency to the lowest responsible bidder(s). A Purchase Order issued by the member Town constitutes an award. The lowest responsible bidder is that person or firm whose bid to perform the work is lowest, who is qualified and competent to do the work, whose past performance of work is satisfactory to the Member Agency and whose bid documents comply with the procedural requirements stated herein. The award process may also include additional considerations such as the information provided on the bid forms and the bidder’s perceived ability to fulfill his/her obligations as prescribed by these specifications. Each bidder must be prepared to show evidence of having satisfactorily carried out a similar contract, as inability to do so may be cause for rejection.


**CONTRACT EXTENSION**
Contracts may be extended by mutual agreement of the parties – for bids with a one year contract period, a one year extension will be permitted if there is mutual agreement; for bids with a two year contract period, a two year contract extension will be permitted if there is mutual agreement. All extensions shall be completed before the next bid invitation is issued. A schedule of bid invitations and openings is posted on the CRPC website.

**ESTIMATED QUANTITIES**
The quantities as listed herein are estimates only and have been provided for the purpose of competitive bidding. Actual quantities will be contingent upon the total number of Member Agencies that decide to make an award off of this bid (as participation is voluntary) and the needs of the using departments in the various Member Agencies.

**INCLUSION OF NON-PARTICIPATING TOWNS AND BOARDS OF EDUCATION**
Any Member Agency, current or future, within the Capitol Region Purchasing Council shall be allowed to participate in this bid during the life of the contract, even if it is not listed amongst the bid participants.

**WITHDRAWAL OF BIDS**
No bid submitted may be withdrawn, in whole or in part, without the written consent of the Capitol Region Purchasing Council.

**REJECTION AND/OR CANCELLATION OF BIDS**
The Council reserves the right to reject or cancel any and all bids, or any part of any or all bids, if such action is deemed to be in its best interest to do so.

**RIGHT TO WAIVE ANY INFORMALITY**
The cooperating Member Agencies reserve the right to waive any informality in a bid when such a waiver is in their best interest.

**BID PRICES**
All prices bid must be on the basis of F.O.B. delivery point, unloaded inside, unless otherwise indicated in the proposal. A bid on any other basis than that indicated in the proposal may be considered informal. **Note:** The Capitol Region Purchasing Council strictly prohibits the unilateral imposition of additional surcharges (fuel, delivery, etc.) on the participating communities at any point during the contract period. Prices bid shall apply throughout the term of the contract and will be construed as all-inclusive.

**TAXES**
Member Agencies are exempt from the payment of any sales, excise or federal transportation taxes. The prices bid, whether a net unit price or a trade discount from catalog list prices, must be exclusive of taxes and will be so construed.

**BILLING**
Billing shall be made to each bid participant according to the terms set forth on each purchase order.

**2% ADMINISTRATIVE FEE**
The Capitol Region Council of Governments uses BidSync to distribute and receive bids and proposals. Responding vendors agree to pay to BidSync an administrative fee of two percent (2%) of the total ordered amount of all contracts for goods and/or services awarded to the vendor. The fee shall be payable for all Council bids unless specifically exempted by the Council. Refer to www.bidsync.com for further information.
REPORTING REQUIREMENTS
All orders placed on CRPC bids shall be reported to BidSync on a quarterly basis. Please contact Jason Sanchez to set up this important reporting function at (512) 717-6149 (telephone); or email jsanchez@periscopeholdings.com.

FAILURE TO COMPLY
All awarded vendors must comply with the 2% Administrative Fee and Reporting Requirements outlined in the CRPC General Terms and Conditions. Failure to comply within 90 days of orders and/or awards by CRPC members may result in the vendor being restricted from participating in future bids.

DELIVERY ARRANGEMENTS AND REQUIREMENTS
No delivery shall become due or be acceptable without a written order issued by the Member Agency concerned. Such order will contain the quantity, time of delivery and other important data.

REFERENCES
Upon request, vendors shall supply the names of other customers (preferably municipalities) to interested Member Agencies.

BIDDER PERFORMANCE/LIABILITY FOR DELIVERY FAILURES
Failure of any successful bidder to adhere to specifications, prices, terms or conditions of their agreement during the course of the contract period may preclude such bidder from bidding on future CRPC bids in addition to any action that Member Agencies may take as a result of the vendor’s failure to perform. It should be noted that the awarded vendor shall assume full responsibility for the negligence of any sub-contractor(s) utilized to fulfill any and all obligations under resulting contracts.

Moreover, if the contractor fails to make proper delivery within the time specified or if the delivery is rejected by the Member Agency, the Member Agency may obtain such commodities or any part thereof from other sources in the open market or on contract. Should the new price be greater than the contract price, the difference will be charged against the contractor. Should the new price be less, the contractor shall have no claim to the difference.

INSURANCE REQUIRED OF SUCCESSFUL BIDDERS
The Successful bidder shall furnish a certificate of insurance which includes the coverages and limits set forth below; identifies the Member Agency as an additional insured; and provides for at least ten (10) days prior notice to the Member Agency of cancellation or non-renewal. Coverage is to be provided on a primary, non-contributory basis:

a. General Liability Insurance, including Contractual Liability Insurance and Products/Completed Operations Insurance issued by an insurance company licensed to conduct business in the State of Connecticut with: limits not less than $1,000,000 for all damages because of bodily injury sustained by each person as the result of any occurrence and $1,000,000 bodily injury aggregate per policy year; and limits of $500,000 for all property damage aggregate per policy year or a limit of $1,000,000 Combined Single Limit (CSL). A Waiver of Subrogation shall be provided. All, if any, deductibles are the sole responsibility of the contractor to pay and/or indemnify.
b. Automobile Liability Insurance issued by an insurance company licensed to conduct business in the State of Connecticut with: limits not less than $1,000,000 for all damages because of bodily injury sustained by each person as a result of any occurrence and $1,000,000 aggregate per policy year; and limits of $500,000 for all damages because of property damage sustained as the result of any one occurrence or $1,000,000 Combined Single Limit (CSL). All, if any, deductibles are the sole responsibility of the contractor to pay and/or indemnify.

c. Worker’s Compensation Insurance in accordance with Connecticut State Statutes.

The insurance requirements listed above are minimum requirements for successful bidders. Awarding agencies may require higher insurance limits.

FOR THE TOWN OF WEST HARTFORD ONLY

Please see Attachment A concerning the town’s insurance requirements.

FUTURE BID INVITATIONS

Future bid invitations may not be sent to vendors who do not bid on this invitation, unless they specifically request that their names be continued on the invitation list.

EQUAL EMPLOYMENT OPPORTUNITY/AFFIRMATIVE ACTION

The Capitol Region Purchasing Council, an affiliate of the Capitol Region Council of Governments, subscribes to the Council of Governments’ policy of Equal Employment Opportunity and Affirmative Action, and pledges to lend its support and cooperation to private and public agencies who are promoting public policy in this vital area of human relations. Vendors will be required to sign the certificate incorporated in the bid document relative to Equal Employment Opportunity and Minority/Female Business Enterprise (if applicable).

SEVERABILITY

If any terms or provisions of this bid shall be found to be illegal or unenforceable, then such term or provision shall be deemed stricken and the remaining portions of this bid shall remain in full force and effect.

ADDITIONAL TERMS AND CONDITIONS

The Vendor assigns to CRCOG all rights title and interests in and to all causes of action it may have under Section 4 of the Clayton Act, 15 USC 15, or under Chapter 624 of the general statutes. This assignment occurs when the Contractor is awarded the contract.

Vendor agrees that it is in compliance with all applicable federal, state and local laws and regulations, including but not limited to Connecticut General Statutes Sections 4a-60 and 4a-60a. The Contractor also agrees that it will hold CRCOG harmless and indemnify CRCOG from any action which may arise out of any act by the contractor concerning lack of compliance with these laws and regulations. All purchases will be in compliance with Section 22a-194 to Section 22a-194g of the Connecticut General Statutes related to product packaging.

Resulting contracts are subject to the provisions of Executive Order N. Three of Governor Thomas J. Meskill promulgated February 15, 1973 and section 16 of P.A. 91-58 nondiscrimination regarding sexual orientation, an the provisions of Executive Order No. Sixteen of Governor John G. Rowland promulgated august 4, 1999 regarding Violence in the Workplace Prevention Policy.
The contract arising from the bid may be subject to the provisions of §1-218 of the Connecticut General Statutes, as it may be modified from time to time. In accordance with this section, each contract in excess of two million five hundred thousand dollars between a public agency and a person for the performance of a governmental function shall (1) provide that the public agency is entitled to receive a copy of records and files related to the performance of the governmental function, and (2) indicate that such records and files are subject to the Freedom of Information Act and may be disclosed by the public agency pursuant to the Freedom of Information Act. No request to inspect or copy such records or files shall be valid unless the request is made to the public agency in accordance with the Freedom of Information Act. Any complaint by a person who is denied the right to inspect or copy such records or files shall be brought to the Freedom of Information Commission in accordance with the provisions of sections 1-205 and 1-206 of the Connecticut General Statutes.

Incorporated by reference into this contract is Section 4-61dd(g)(1) and 4-61dd(3) and (f) of the Connecticut General Statutes which prohibits contractors from taking adverse action against employees who disclosed information to the Auditors of Public Accounts or the Attorney General.

QUESTIONS
General inquiries should be directed to Maureen Goulet, Purchasing Program Manager, at the:
Capitol Region Purchasing Council
241 Main Street, 4th Floor
Hartford, CT 06106
Tel: 860-522-2217 ext. 37
Fax: 860-724-1274
E-mail: mgoulet@crcog.org

However, no oral interpretations shall be made to any respondent as to the meaning of any of the bid documents. Every request for an interpretation shall be made in writing, addressed and forwarded either to the address above, faxed to (860) 724-1274, emailed to mgoulet@crcog.org, or posted to the BidSync online bidding system. To receive consideration, such questions must be received at least five (5) calendar days before the established date for receipt of proposals.

The Program Manager will arrange as addenda, which shall be made a part of this Invitation for Bid and any resulting contracts, all questions received as above provided and the decisions regarding each. At least three (3) days prior to the receipt of bid proposals, the Program Manager will post a copy of any addenda to the BidSync system. In special cases, the Program Coordinator reserves the right to post clarifying information in the form of an addendum outside of the aforementioned timeline. It shall be the responsibility of each respondent to determine whether any addenda have been issued and if so, to download copies directly from the BidSync website.
I. MODIFICATIONS TO GENERAL TERMS AND CONDITIONS

INTENT
The intent of these specifications is to furnish grass seed, fertilizer and other related products as required by the various towns in the Capitol Region during the contract period commencing February 15, 2019 and ending January 31, 2020.

REBATES/DISCOUNT OFFERS
Respondents are asked to specify on the attached bid form any and all special discount or rebate offers that shall be made available to the cooperating municipalities. Specific ordering deadlines for these offers, if applicable, should also be clearly noted.

DELIVERIES
Deliveries shall be made to such locations and in such quantities as shall be designated by various town departments. In some cases, limited storage facilities may require deliveries of small lots.

II. TECHNICAL SPECIFICATIONS/ADDITIONAL REQUIREMENTS

GRASS SEED
Grass seed is to be labeled in accordance with the Connecticut Seed Law and Regulations (Chapter 424 Section 22-61a of the Connecticut General Statutes as amended).

All seed is to be delivered in suitable bags and must be properly identified as to mixture or blend.

For each variety in a blend or sold separately, backup data must be included for assessing quality. This data should include ratings from independent field-testing services by NTEP, University field trials or some other independent testing laboratory. Vendors are asked to include data on the other varieties in the same test plots. It is expected that all blends will contain compatible varieties relative to color, climate, soil types and response to cultural inputs.

Bids on each blend of grass seed shall be accompanied by an information sheet (attached) which is properly filled out. It is understood that the information shown consists of minimum percentages regarding germination and purity, and maximum percentages regarding noxious weed and inert matter.

FERTILIZER
All fertilizers are to be delivered in suitable moisture-proof bags and shall be labeled in accordance with the Connecticut Fertilizer Law (General Statutes, Chapter 427a, as amended). Unless otherwise specified, fertilizers should be furnished in 50 lb. bags.

ORGANICS
All organics shall adhere to OMRI (Organic Materials Review Institute) standards and be free of sewage sludge and biosolids. All materials shall be from natural sources (plant, animal and rock).

Note: Manufacturer spec sheets shall be furnished upon request to any participating CRPC community.
SAMPLING (for Grass Seed and Fertilizer)
Representative samples to determine chemical guarantees may be taken by an authorized representative of the Connecticut Agricultural Experiment Station, New Haven, Connecticut.

In the event that these samples do not conform to the guarantee, a penalty, in proportion to the discrepancy between guarantee and delivered material, will be applied to the unit price at which the award was made.

MARKING LIME
Marking lime must be bright white only. The lime must not be so fine that it packs and clogs spreaders.

NOTE:
All fertilizers should be in coarse, granular form. Wherever organic nitrogen is requested, it shall be from natural or synthetic sources. Urea is not to be used as an organic source of nitrogen. However, urea may be used along with other inorganic sources of nitrogen, to furnish the balance of nitrogen classed as organic.

RESTRICTED USE PRODUCTS
Vendors shall identify all restricted use pesticides included herein, pursuant to the Department of Energy and Environmental Protection’s most recent list.

LICENSURE
Responding vendors shall include a copy of a current and valid Connecticut Pesticide Dealer’s License to sell restricted use pesticides with their bid submission.
**Supplier: WinField United**

CRPC #682

CAPITOL REGION PURCHASING COUNCIL
INVITATION FOR BID
GRASS SEED AND FERTILIZER

INFORMATION SHEET

<table>
<thead>
<tr>
<th>GRASS VARIETY*</th>
<th>Tested</th>
<th>Purity</th>
<th>Germination</th>
<th>Weed</th>
<th>Inert</th>
<th>Crop Seed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kentucky Bluegrass</td>
<td>7/18</td>
<td>98.10</td>
<td>85</td>
<td>0</td>
<td>1.9</td>
<td>0</td>
</tr>
<tr>
<td>Perennial Ryegrass</td>
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<td>98.25</td>
<td>90</td>
<td>0.54</td>
<td>1.18</td>
<td>0.0</td>
</tr>
</tbody>
</table>

Citation

Creeping Red Fescue

Manhattan Rye

Chewing Fescue

Annual Ryegrass

Pennfine

Derby

Regal

Penncross

Tall Fescue | 10/18 | 99 | 90 | 0.01 | 0.75 | 0.05 |

Highland Colonial Bent

Champion Rye with Endophyte

Fiesta II Perennial Rye

Magic Perennial Rye

Certified Kentucky Bluegrass Blend

Rebel II

*Vendors are asked to note any variances in grass variety directly on the Information Sheets to reflect the offerings contained on the Bid Form.*
**Grass Variety**

<table>
<thead>
<tr>
<th>Tested</th>
<th>Purity</th>
<th>Germination</th>
<th>Weed</th>
<th>Inert</th>
<th>Crop Seed</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>11/17</td>
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<td>0.01</td>
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<tr>
<td>10/18</td>
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<td>90</td>
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<td>0.75</td>
<td>0.04</td>
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<tr>
<td>7/18</td>
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</tr>
<tr>
<td>7/18</td>
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<td>0</td>
<td>1.51</td>
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</tr>
<tr>
<td>3/18</td>
<td>97.65</td>
<td>87.75</td>
<td>0</td>
<td>2.35</td>
<td>0</td>
</tr>
</tbody>
</table>

**Rebates/Special Discounts**

A cash discount of aaag percent (%) will be allowed if invoices are paid within 0 days.

If there is a container deposit, please state in space provided: 0
Supplier: WinField United

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.

James Popko
Duly Authorized

Date

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

for 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,

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

comply with the Connecticut Workers

Umbrella Liability:

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

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

Automobile Liability and Physical Damage Coverage:

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

Commercial General Liability:

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

compliance with all of the requirements of the Workers

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

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

Supplier: 
WinField United

Duly Authorized
Date
James Popko
(Print Name Here)
Supplier: WinField United

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

Winfield United

REPRESENTATIVE

James Popko

POSITION

Sales Representative

ADDRESS

884 Westhampton Road

(ZIP)

01062

TELEPHONE #

413-454-3847

FAX #

NA

TAX ID #

26-0748410

E-MAIL ADDRESS

JPopko@landolakes.com
SIGNATURE

James Popko

PAYMENT TERMS: %Days

DATE: 1/28/19