Bid Tabulation Packet
for
Solicitation 681

Traffic Guidelines

Bid Designation: Public

Capitol Region Council of Governments

Bid #681 - Traffic Guidelines

Creation Date **Oct 22, 2018**
End Date **Dec 13, 2018 10:30:00 AM EST**
Start Date **Nov 15, 2018 8:47:44 AM EST**
Awarded Date **Not Yet Awarded**

681--01-01 Pavement Lines: 4" Single Yellow or White Lines

Supplier	Epoxy Resin	Waterborne Paint	Hot Applied Waterborne Paint	Oil Base Paint	Thermo Plastic	Pavement Marking Tape	Pavement Marking Tape - Materials Only	Attch.	Docs
Atlantic Pavement Marking Inc. **[Ad]**	First Offer - $0.00	$0.0379	$0.0379	$0.0379	$0.00	$0.00	$0.00	Y	Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							
Safety Marking, Inc. **[Ad]**	First Offer - $0.254	$0.045	$0.045		$0.90	$2.00	$1.00	Y	Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							

681--01-02 Pavement Lines: Double Yellow Lines (Measure as a pair of 4" lines)

Supplier	Epoxy Resin	Waterborne Paint	Hot Applied Waterborne Paint	Oil Base Paint	Thermo Plastic	Pavement Marking Tape	Pavement Marking Tape - Materials Only	Attch.	Docs
Atlantic Pavement Marking Inc. **[Ad]**	First Offer - $0.00	$0.0673	$0.0673	$0.0673	$0.00	$0.00	$0.00	Y	Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							
Safety Marking, Inc. **[Ad]**	First Offer - $0.49	$0.083	$0.083		$1.80	$4.00	$2.00	Y	Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							

681--01-03 Pavement Lines: Double Yellow Lines (Measure as a pair of 4" lines)

Supplier	Epoxy Resin	Waterborne Paint	Hot Applied Waterborne Paint	Oil Base Paint	Thermo Plastic	Pavement Marking Tape	Pavement Marking Tape - Materials Only	Attch.	Docs
Atlantic Pavement Marking Inc. **[Ad]**	First Offer - $0.00	$0.0673	$0.0673	$0.0673	$0.00	$0.00	$0.00	Y	Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							
Safety Marking, Inc. **[Ad]**	First Offer - $0.49	$0.083	$0.083		$1.80	$4.00	$2.00	Y	Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							

681--01-04 Pavement Lines: Double Yellow Lines (Measure as a pair of 4" lines)

Supplier	Epoxy Resin	Waterborne Paint	Hot Applied Waterborne Paint	Oil Base Paint	Thermo Plastic	Pavement Marking Tape	Pavement Marking Tape - Materials Only	Attch.	Docs
Atlantic Pavement Marking Inc. **[Ad]**	First Offer - $0.00	$0.0673	$0.0673	$0.0673	$0.00	$0.00	$0.00	Y	Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							
Safety Marking, Inc. **[Ad]**	First Offer - $0.49	$0.083	$0.083		$1.80	$4.00	$2.00	Y	Y
Product Code:		**Supplier Product Code:**							

Agency Notes: **Supplier Notes:**

681--01-05 Pavement Lines: White Skip Lines; 15' segment & 30'' skip

Supplier	Epoxy Resin	Waterborne Paint	Hot Applied Waterborne Paint	Oil Base Paint	Thermo Plastic	Pavement Marking Tape	Pavement Marking Tape - Materials Only	Attch.	Docs
Atlantic Pavement Marking Inc. **[Ad]**	First Offer - $0.00	$0.0379	$0.0379	$0.0379	$0.00	$0.00	$0.00		Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							
Safety Marking, Inc. **[Ad]**	First Offer - $0.254	$0.045	$0.045		$0.90	$2.00	$1.00		Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							

681--01-06 Pavement Lines: White Skip Lines; 10' segment & 30'' skip

Supplier	Epoxy Resin	Waterborne Paint	Hot Applied Waterborne Paint	Oil Base Paint	Thermo Plastic	Pavement Marking Tape	Pavement Marking Tape - Materials Only	Attch.	Docs
Atlantic Pavement Marking Inc. **[Ad]**	First Offer - $0.00	$0.0379	$0.0379	$0.0379	$0.00	$0.00	$0.00		Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							
Safety Marking, Inc. **[Ad]**	First Offer - $0.254	$0.045	$0.045		$0.90	$2.00	$1.00		Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							

681--02-01 Legends, Arrows and Markings: Single Arrows: Thru Arrows, 12.5 s.f.; Turn Arrows, **15.5 s.f.**

Supplier	Epoxy Resin	Waterborne Paint	Hot Applied Waterborne Paint	Oil Base Paint	Thermo Plastic	Pavement Marking Tape	Pavement Marking Tape - Materials Only	Attch.	Docs
Atlantic Pavement Marking Inc. **[Ad]**	First Offer - $0.00	$0.84	$0.84	$0.84	$0.00	$0.00	$0.00		Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							
Safety Marking, Inc. **[Ad]**	First Offer - $2.98	$0.89	$0.89		$3.00	$5.50	$3.75		Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							

681--02-02 Legends, Arrows and Markings: Combination Arrows **- Two Way, 27 s.f.; Three Way, 28.5 s.f.**

Supplier	Epoxy Resin	Waterborne Paint	Hot Applied Waterborne Paint	Oil Base Paint	Thermo Plastic	Pavement Marking Tape	Pavement Marking Tape - Materials Only	Attch.	Docs
Atlantic Pavement Marking Inc. **[Ad]**	First Offer - $0.00	$0.84	$0.84	$0.84	$0.00	$0.00	$0.00		Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							
Safety Marking, Inc. **[Ad]**	First Offer - $2.98	$0.89	$0.89		$3.00	$5.50	$3.75		Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							

681--02-03 Legends, Arrows and Markings: Parking Stalls 4" wide

Supplier	Epoxy Resin	Waterborne Paint	Hot Applied Waterborne Paint	Oil Base Paint	Thermo Plastic	Pavement Marking Tape	Pavement Marking Tape - Materials Only	Attch.	Docs
Atlantic Pavement Marking Inc. **[Ad]**	First Offer - $0.00	$0.90	$0.90	$0.90	$0.00	$0.00	$0.00		Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							
Safety Marking, Inc. **[Ad]**	First Offer - $4.25	$0.99	$0.99		$2.85	$5.75	$3.75		Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							

681--02-04 Legends, Arrows and Markings: Parallel T**-Bar**

Supplier	Epoxy Resin	Waterborne Paint	Hot Applied Waterborne Paint	Oil Base Paint	Thermo Plastic	Pavement Marking Tape	Pavement Marking Tape - Materials Only	Attch.	Docs
Atlantic Pavement Marking Inc. **[Ad]**	First Offer - $0.00	$0.90	$0.90	$0.90	$0.00	$0.00	$0.00		Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							
Safety Marking, Inc. **[Ad]**	First Offer - $4.25	$0.99	$0.99		$2.85	$5.75	$3.75		Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							

681--02-05 Legends, Arrows and Markings: Crosswalks 6 inch

Supplier	Epoxy Resin	Waterborne Paint	Hot Applied Waterborne Paint	Oil Base Paint	Thermo Plastic	Pavement Marking Tape	Pavement Marking Tape - Materials Only	Attch.	Docs
Atlantic Pavement Marking Inc. **[Ad]**	First Offer - $0.00	$0.49	$0.49	$0.49	$0.00	$0.00	$0.00		Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							
Safety Marking, Inc. **[Ad]**	First Offer - $2.95	$0.89	$0.89		$2.85	$5.75	$3.75		Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							

681--02-06 Legends, Arrows and Markings: Crosswalks 12 inch

Supplier	Epoxy Resin	Waterborne Paint	Hot Applied Waterborne Paint	Oil Base Paint	Thermo Plastic	Pavement Marking Tape	Pavement Marking Tape - Materials Only	Attch.	Docs
Atlantic Pavement Marking Inc. **[Ad]**	First Offer - $0.00	$0.49	$0.49	$0.49	$0.00	$0.00	$0.00		Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							
Safety Marking, Inc. **[Ad]**	First Offer - $2.95	$0.89	$0.89		$2.85	$5.75	$3.75		Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							

681--02-07 Legends, Arrows and Markings: Crosswalk 12 inch with crosshatch

Supplier	Epoxy Resin	Waterborne Paint	Hot Applied Waterborne Paint	Oil Base Paint	Thermo Plastic	Pavement Marking Tape	Pavement Marking Tape - Materials Only	Attch.	Docs
Atlantic Pavement Marking Inc. **[Ad]**	First Offer - $0.00	$0.49	$0.49	$0.49	$0.00	$0.00	$0.00		Y

Product Code: / Agency Notes:		Supplier Product Code: / Supplier Notes:							
Safety Marking, Inc. **[Ad]**	First Offer - $2.78	$0.89	$0.89		$2.85	$5.75	$3.75		Y
Product Code: / **Agency Notes:**		**Supplier Product Code:** / **Supplier Notes:**							

681--02-08 Legends, Arrows and Markings: Standard Crosswalk with 16" wide bars

Supplier	Epoxy Resin	Waterborne Paint	Hot Applied Waterborne Paint	Oil Base Paint	Thermo Plastic	Pavement Marking Tape	Pavement Marking Tape - Materials Only	Attch.	Docs
Atlantic Pavement Marking Inc. **[Ad]**	First Offer - $0.00	$0.49	$0.49	$0.49	$0.00	$0.00	$0.00		Y
Product Code: / **Agency Notes:**		**Supplier Product Code:** / **Supplier Notes:**							
Safety Marking, Inc. **[Ad]**	First Offer - $2.78	$0.89	$0.89		$2.85	$5.75	$3.75		Y
Product Code: / **Agency Notes:**		**Supplier Product Code:** / **Supplier Notes:**							

681--02-09 Legends, Arrows and Markings: School/Elderly Standard Crosswalks with 2' wide bars

Supplier	Epoxy Resin	Waterborne Paint	Hot Applied Waterborne Paint	Oil Base Paint	Thermo Plastic	Pavement Marking Tape	Pavement Marking Tape - Materials Only	Attch.	Docs
Atlantic Pavement Marking Inc. **[Ad]**	First Offer - $0.00	$0.49	$0.49	$0.49	$0.00	$0.00	$0.00		Y
Product Code: / **Agency Notes:**		**Supplier Product Code:** / **Supplier Notes:**							
Safety Marking, Inc. **[Ad]**	First Offer - $2.78	$0.89	$0.89		$2.85	$5.75	$3.75		Y
Product Code: / **Agency Notes:**		**Supplier Product Code:** / **Supplier Notes:**							

681--02-10 Legends, Arrows and Markings: Miscellaneous Detail

Supplier	Epoxy Resin	Waterborne Paint	Hot Applied Waterborne Paint	Oil Base Paint	Thermo Plastic	Pavement Marking Tape	Pavement Marking Tape - Materials Only	Attch.	Docs
Atlantic Pavement Marking Inc. **[Ad]**	First Offer - $0.00	$0.63	$0.63	$0.63	$0.00	$0.00	$0.00		Y
Product Code: / **Agency Notes:**		**Supplier Product Code:** / **Supplier Notes:**							
Safety Marking, Inc. **[Ad]**	First Offer - $3.95	$0.89	$0.89		$3.25	$6.00	$3.75		Y
Product Code: / **Agency Notes:**		**Supplier Product Code:** / **Supplier Notes:**							

681--02-11 Legends, Arrows and Markings: Railroad Crossing (20' x 8' x 16": 67.5 s.f.)

Supplier	Epoxy Resin	Waterborne Paint	Hot Applied Waterborne Paint	Oil Base Paint	Thermo Plastic	Pavement Marking Tape	Pavement Marking Tape - Materials Only	Attch.	Docs
Atlantic Pavement Marking Inc. **[Ad]**	First Offer - $0.00	$0.65	$0.65	$0.65	$0.00	$0.00	$0.00		Y
Product Code: / **Agency Notes:**		**Supplier Product Code:** / **Supplier Notes:**							
Safety Marking, Inc. **[Ad]**	First Offer - $3.50	$0.89	$0.89		$3.00	$5.75	$3.75		Y
Product Code: / **Agency Notes:**		**Supplier Product Code:** / **Supplier Notes:**							

681--02-12 Legends, Arrows and Markings: Bicycle Path Diamonds (4 sides, each measuring 3' x 6")

Supplier	Epoxy Resin	Waterborne Paint	Hot Applied Waterborne Paint	Oil Base Paint	Thermo Plastic	Pavement Marking Tape	Pavement Marking Tape - Materials Only	Attch.	Docs
Atlantic Pavement Marking Inc. **[Ad]**	First Offer - $0.00	$0.63	$0.63	$0.63	$0.00	$0.00	$0.00		Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							
Safety Marking, Inc. **[Ad]**	First Offer - $3.85	$0.99	$0.99		$3.00	$5.75	$3.75		Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							

681--02-13 Legends, Arrows and Markings: Bicycle Symbol with Arrow

Supplier	Epoxy Resin	Waterborne Paint	Hot Applied Waterborne Paint	Oil Base Paint	Thermo Plastic	Pavement Marking Tape	Pavement Marking Tape - Materials Only	Attch.	Docs
Atlantic Pavement Marking Inc. **[Ad]**	First Offer - $0.00	$1.15	$1.15	$1.15	$0.00	$0.00	$0.00		Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							
Safety Marking, Inc. **[Ad]**	First Offer - $125.00	$68.00	$68.00		$150.00	$250.00	$125.00		Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							

681--02-14 Legends, Arrows and Markings: Stenciling (letters and numbers)

Supplier	Epoxy Resin	Waterborne Paint	Hot Applied Waterborne Paint	Oil Base Paint	Thermo Plastic	Pavement Marking Tape	Pavement Marking Tape - Materials Only	Attch.	Docs
Atlantic Pavement Marking Inc. **[Ad]**	First Offer - $0.00	$60.00	$60.00	$60.00	$0.00	$0.00	$0.00		Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							
Safety Marking, Inc. **[Ad]**	First Offer - $39.00	$6.50	$6.50						Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							

681--02-15 Legends, Arrows and Markings: Curbs

Supplier	Epoxy Resin	Waterborne Paint	Hot Applied Waterborne Paint	Oil Base Paint	Thermo Plastic	Pavement Marking Tape	Pavement Marking Tape - Materials Only	Attch.	Docs
Atlantic Pavement Marking Inc. **[Ad]**	First Offer - $0.00	$0.30	$0.30	$0.30	$0.00	$0.00	$0.00		Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							
Safety Marking, Inc. **[Ad]**	First Offer - $2.99	$0.30	$0.30						Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							

681--02-16 Legends, Arrows and Markings: Handicapped Stencils **- EACH**

Supplier	Epoxy Resin	Waterborne Paint	Hot Applied Waterborne Paint	Oil Base Paint	Thermo Plastic	Pavement Marking Tape	Pavement Marking Tape - Materials Only	Attch.	Docs
Safety Marking, Inc. **[Ad]**	First Offer - $48.00	$17.50	$17.50			$200.00	$100.00		Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							
Atlantic Pavement Marking Inc. **[Ad]**	First Offer - $0.00	$18.00	$18.00	$18.00					Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							

681--02-17 Legends, Arrows and Markings: Removal of Markings

Supplier	Epoxy Resin	Waterborne Paint	Hot Applied Waterborne Paint	Oil Base Paint	Thermo Plastic	Pavement Marking Tape	Pavement Marking Tape - Materials Only	Attch.	Docs
Atlantic Pavement Marking Inc. **[Ad]**	First Offer - $0.00	$1.40	$1.40	$1.40	$0.00	$0.00	$0.00		Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							
Safety Marking, Inc. **[Ad]**	First Offer - $1.05	$1.05	$1.05		$1.05	$1.05			Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							

681--02-18 Legends, Arrows and Markings: 12" stop bars

Supplier	Epoxy Resin	Waterborne Paint	Hot Applied Waterborne Paint	Oil Base Paint	Thermo Plastic	Pavement Marking Tape	Pavement Marking Tape - Materials Only	Attch.	Docs
Atlantic Pavement Marking Inc. **[Ad]**	First Offer - $0.00	$0.50	$0.50	$0.50	$0.00	$0.00	$0.00		Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							
Safety Marking, Inc. **[Ad]**	First Offer - $2.99	$0.89	$0.89		$3.25	$5.75	$5.75		Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							

681--02-19 Legends, Arrows and Markings: Sharrows

Supplier	Epoxy Resin	Waterborne Paint	Hot Applied Waterborne Paint	Oil Base Paint	Thermo Plastic	Pavement Marking Tape	Pavement Marking Tape - Materials Only	Attch.	Docs
Atlantic Pavement Marking Inc. **[Ad]**	First Offer - $0.00	$0.45	$0.45	$0.45	$0.00	$0.00	$0.00		Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							
Safety Marking, Inc. **[Ad]**	First Offer - $94.00	$58.00	$58.00						Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**							

681--03-01 Recessed Pavement Marking Grooves: 80 MIL Pavement Marking Groove, 5" Wide

Supplier	Price Per Linear Foot	Attch.	Docs
Atlantic Pavement Marking Inc. **[Ad]**	First Offer - $0.00		Y
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier**	

		Notes:	
Safety Marking, Inc. **[Ad]**	First Offer - $0.50		**Y**
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**	

681--03-02 Recessed Pavement Marking Grooves: 80 MIL Pavement Marking Groove, 7" Wide

Supplier	**Price Per Linear Foot**	**Attch.**	**Docs**
Atlantic Pavement Marking Inc. **[Ad]**	First Offer - $0.00		**Y**
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**	
Safety Marking, Inc. **[Ad]**	First Offer - $0.74		**Y**
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**	

681--03-03 Recessed Pavement Marking Grooves: 80 MIL Pavement Marking Groove, 9" Wide

Supplier	**Price Per Linear Foot**	**Attch.**	**Docs**
Atlantic Pavement Marking Inc. **[Ad]**	First Offer - $0.00		**Y**
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**	
Safety Marking, Inc. **[Ad]**	First Offer - $0.89		**Y**
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**	

681--03-04 Recessed Pavement Marking Grooves: 80 MIL Pavement Marking Groove, 13" Wide

Supplier	**Price Per Linear Foot**	**Attch.**	**Docs**
Atlantic Pavement Marking Inc. **[Ad]**	First Offer - $0.00		**Y**
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**	
Safety Marking, Inc. **[Ad]**	First Offer - $1.14		**Y**
Product Code: **Agency Notes:**		**Supplier Product Code:** **Supplier Notes:**	

Supplier Totals

Atlantic Pavement Marking Inc. **[Ad]**	$269.8668	(29/29 items)
Bid Contact **Wayne Edwards**	Address **15 Industrial Rd**	

	office@atlpavemarking.com **Ph 203-758-**0800 **Fax 203-758-0733**	**Prospect, CT 06712**	
Qualifications	SB		
Agency Notes:		**Supplier Notes:**	
Safety Marking, Inc. **[Ad]**		$1,711.64	(29/29 items)
Bid Contact	**Caroline Sumner** **csumner@safetymarking.net** **Ph 203-333-**6870 **Fax 203-814-3463**	Address	**255 Hancock Avenue** **Bridgeport, CT 06605**
Bid Notes	**See Attachment**		
Agency Notes:		**Supplier Notes:** See Attachment	

Award Total

$6,875,872.9444 (Does not apply to percentage or no price items.)

**

Atlantic Pavement Marking Inc.

Bid Contact **Wayne Edwards**
office@atlpavemarking.com
Ph 203-758-0800
Fax 203-758-0733

Address **15 Industrial Rd**
Prospect, CT 06712

Qualifications SB

Item #	Line Item	Notes	Epoxy Resin	Waterborne Paint	Hot Applied Waterborne Paint	Oil Base Paint	Thermo Plastic	Pavement Marking Tape	Pavement Marking Tape - Materials Only	Attch.	Docs
681--01-01	Pavement Lines: 4" Single Yellow or White Lines	**Supplier Product Code:**	First Offer - $0.00	$0.0379	$0.0379	$0.0379	$0.00	$0.00	$0.00	**Y**	**Y**
681--01-02	Pavement Lines: Double Yellow Lines (Measure as a pair of 4" lines)	**Supplier Product Code:**	First Offer - $0.00	$0.0673	$0.0673	$0.0673	$0.00	$0.00	$0.00	**Y**	**Y**
681--01-03	Pavement Lines: Double Yellow Lines (Measure as a pair of 4" lines)	**Supplier Product Code:**	First Offer - $0.00	$0.0673	$0.0673	$0.0673	$0.00	$0.00	$0.00	**Y**	**Y**
681--01-04	Pavement Lines: Double Yellow Lines (Measure as a pair of 4" lines)	**Supplier Product Code:**	First Offer - $0.00	$0.0673	$0.0673	$0.0673	$0.00	$0.00	$0.00	**Y**	**Y**
681--01-05	Pavement Lines: White Skip Lines; 15' segment & 30" skip	**Supplier Product Code:**	First Offer - $0.00	$0.0379	$0.0379	$0.0379	$0.00	$0.00	$0.00		**Y**
681--01-06	Pavement Lines:	**Supplier Product**									**Y**

	White Skip Lines; 10' segment & 30" skip	**Code:**	First Offer - $0.00	$0.0379	$0.0379	$0.0379	$0.00	$0.00	$0.00		

Lot Total $0.9468

Item #	Line Item	Notes	Epoxy Resin	Waterborne Paint	Hot Applied Waterborne Paint	Oil Base Paint	Thermo Plastic	Pavement Marking Tape	Pavement Marking Tape - Materials Only	Attch.	Docs
681--02-01	Legends, Arrows and Markings: Single Arrows: Thru Arrows, 12.5 s.f.; Turn Arrows, 15.5 s.f.	**Supplier Product Code:**	First Offer - $0.00	$0.84	$0.84	$0.84	$0.00	$0.00	$0.00		**Y**
681--02-02	Legends, Arrows and Markings: Combination Arrows - Two Way, 27 s.f.; Three Way, 28.5 s.f.	**Supplier Product Code:**	First Offer - $0.00	$0.84	$0.84	$0.84	$0.00	$0.00	$0.00		**Y**
681--02-03	Legends, Arrows and Markings: Parking Stalls 4" wide	**Supplier Product Code:**	First Offer - $0.00	$0.90	$0.90	$0.90	$0.00	$0.00	$0.00		**Y**
681--02-04	Legends, Arrows and Markings: Parallel T-Bar	**Supplier Product Code:**	First Offer - $0.00	$0.90	$0.90	$0.90	$0.00	$0.00	$0.00		**Y**
681--02-05	Legends, Arrows and Markings: Crosswalks 6 inch	**Supplier Product Code:**	First Offer - $0.00	$0.49	$0.49	$0.49	$0.00	$0.00	$0.00		**Y**
681--02-06	Legends, Arrows and Markings: Crosswalks 12 inch	**Supplier Product Code:**	First Offer - $0.00	$0.49	$0.49	$0.49	$0.00	$0.00	$0.00		**Y**
681--02-07	Legends, Arrows and Markings: Crosswalk 12 inch with crosshatch	**Supplier Product Code:**	First Offer - $0.00	$0.49	$0.49	$0.49	$0.00	$0.00	$0.00		**Y**

681--02-08	Legends, Arrows and Markings: Standard Crosswalk with 16" wide bars	**Supplier Product Code:**	First Offer - $0.00	$0.49	$0.49	$0.49	$0.00	$0.00	$0.00	**Y**
681--02-09	Legends, Arrows and Markings: School/Elderly Standard Crosswalks with 2' wide bars	**Supplier Product Code:**	First Offer - $0.00	$0.49	$0.49	$0.49	$0.00	$0.00	$0.00	**Y**
681--02-10	Legends, Arrows and Markings: Miscellaneous Detail	**Supplier Product Code:**	First Offer - $0.00	$0.63	$0.63	$0.63	$0.00	$0.00	$0.00	**Y**
681--02-11	Legends, Arrows and Markings: Railroad Crossing (20' x 8' x 16": 67.5 s.f.)	**Supplier Product Code:**	First Offer - $0.00	$0.65	$0.65	$0.65	$0.00	$0.00	$0.00	**Y**
681--02-12	Legends, Arrows and Markings: Bicycle Path Diamonds (4 sides, each measuring 3' x 6")	**Supplier Product Code:**	First Offer - $0.00	$0.63	$0.63	$0.63	$0.00	$0.00	$0.00	**Y**
681--02-13	Legends, Arrows and Markings: Bicycle Symbol with Arrow	**Supplier Product Code:**	First Offer - $0.00	$1.15	$1.15	$1.15	$0.00	$0.00	$0.00	**Y**
681--02-14	Legends, Arrows and Markings: Stenciling (letters and numbers)	**Supplier Product Code:**	First Offer - $0.00	$60.00	$60.00	$60.00	$0.00	$0.00	$0.00	**Y**
681--02-15	Legends, Arrows and Markings: Curbs	**Supplier Product Code:**	First Offer - $0.00	$0.30	$0.30	$0.30	$0.00	$0.00	$0.00	**Y**

681--02-16	Legends, Arrows and Markings: Handicapped Stencils - EACH	**Supplier Product Code:**	First Offer - $0.00	$18.00	$18.00	$18.00					**Y**
681--02-17	Legends, Arrows and Markings: Removal of Markings	**Supplier Product Code:**	First Offer - $0.00	$1.40	$1.40	$1.40	$0.00	$0.00	$0.00		**Y**
681--02-18	Legends, Arrows and Markings: 12" stop bars	**Supplier Product Code:**	First Offer - $0.00	$0.50	$0.50	$0.50	$0.00	$0.00	$0.00		**Y**
681--02-19	Legends, Arrows and Markings: Sharrows	**Supplier Product Code:**	First Offer - $0.00	$0.45	$0.45	$0.45	$0.00	$0.00	$0.00		**Y**

Lot Total $268.92

Item #	Line Item	Notes	Price Per Linear Foot	Attch.	Docs
681--03-01	Recessed Pavement Marking Grooves: 80 MIL Pavement Marking Groove, 5" Wide	**Supplier Product Code:**	First Offer - $0.00		**Y**
681--03-02	Recessed Pavement Marking Grooves: 80 MIL Pavement Marking Groove, 7" Wide	**Supplier Product Code:**	First Offer - $0.00		**Y**
681--03-03	Recessed Pavement Marking Grooves: 80 MIL Pavement Marking Groove, 9" Wide	**Supplier Product Code:**	First Offer - $0.00		**Y**
681--03-04	Recessed Pavement Marking Grooves: 80 MIL Pavement Marking Groove, 13" Wide	**Supplier Product Code:**	First Offer - $0.00		**Y**

Lot Total $0.00

Atlantic Pavement Marking Inc.

Item: **Pavement Lines:4" Single Yellow or White Lines**

Attachments

Mtl spec _ Waterborne_2036,2037 CT,ME,MA,NH,RI,VT 4-23-14.pdf

Franklin Paint™
259 COTTAGE ST FRANKLIN, MA 02038
www.franklinpaint.com

Product Data: CT, ME, MA, NH, RI, VT SPEC WATERBORNE TRAFFIC PAINT

DESCRIPTION: Lead free, VOC compliant, fast drying, 100% acrylic waterborne traffic paint. Conforms to several state specifications. For use on bituminous, Portland-cement, concrete pavements and various sealcoat applications. Not recommended for use on concrete sealers containing silicone.

SURFACE CONDITION/PREPARATION: Asphalt and concrete surfaces should be cured, clean, dry, and sound. Loose and lifting paint should be removed prior to application. Concrete with sealers containing silicone, having a smooth finish, or efflorescence should be treated by etching or abrasive blasting, as these conditions may interfere with adhesion. When the product must be applied on new asphalt, apply two thin coats 7-8 mils each, allowing 24 hours between coats is recommended to help minimize cracking and lifting. While new asphalt surfaces vary in length of time required for cure, one to two weeks is usually adequate for the application of waterborne paints. Waterborne paints applied too thick or too soon may cause asphalt to lift and or crack. *Regardless of surface condition, a test stripe should be placed inconspicuously to determine if surface is suitable before continuing.*

APPLICATION: Formulated for use with either airless or conventional air atomized spray equipment. See equipment manufacturer's recommendations. Recommended paint thickness is 15 mils wet. For best results apply when air and surface temperatures are above 50°F and relative humidity is below 85%. To improve spraying, paint may be heated to an optimum temperature of 110°F, never exceed 160° F. Heating waterborne paint will not accelerate dry time.

THINNING & CLEANING: Thinning is not recommended. If thinning is desired, use clean water, do not exceed 1 pint of water per 5 gallons of paint. Adding water will increase dry time. Wet paint may be cleaned with water. Dried paint is very difficult to remove.

SHELF LIFE: 12 months minimum in an unopened container stored @ 77ºF

STORAGE: Store in a cool dry area. **KEEP FROM FREEZING**

Never mix waterborne and alkyd paints!

	2036 WHITE	2037 YELLOW
Coverage/Gal (15 mils wet 4" line)	320'	320'
Dry Time Minutes 15 mils (ASTM D-711)	8	8
Dry Opacity (Hiding)	0.975	0.97
Viscosity-KU (Kreb Units)	85-90	85-90
Weight/Gallon (lbs.)	14.1	13.75
Directional Reflectance (Cap Y)	88	50.5
VOC's-Pounds/Gallon	0.70	0.64
% Total Pigment (By Weight)	61.4	58.6
% Total Solids (By Weight)	77.6	77.5
% Total Non-Volatile Vehicle (By Weight)	43.0	43.0

Vehicle Type- **Next Generation Fastrack™ 3427 100% Acrylic Resin (provides improved durability)**

800-486-0304 Fax: 508-528-8152 contact@franklinpaint.com

REVISED
4-23-14 LHB

Atlantic Pavement Marking Inc.

Item: **Pavement Lines:Pavement Lines:Double Yellow Lines (Measure as a pair of 4" lines)**

Attachments

Chlorinated Rubber Low VOC.pdf

Franklin Paint™
259 COTTAGE ST FRANKLIN, MA 02038
www.franklinpaint.com

Product Data: LOW VOC CHLORINATED RUBBER TRAFFIC PAINT

DESCRIPTION: A durable fast drying alkyd traffic paint modified with chlorinated rubber. Conforms to current federal VOC regulations. Recommended for use on bituminous and concrete pavements. Not recommended for use over concrete sealers containing silicone or asphalt sealers.

SURFACE CONDITION/PREPARATION: Asphalt and concrete surfaces should be cured, clean, dry, and sound. Loose and lifting paint should be removed prior to application. Concrete with sealers containing silicone, having a smooth finish, or efflorescence should be removed by etching or abrasive blasting, as these conditions may interfere with adhesion. While new asphalt surfaces vary in length of time required for curing, insufficient curing may result in bleeding. New concrete tends to chalk; alkyd may also react with the alkali in new concrete making adhesion difficult. *Regardless of surface condition, a test stripe should be placed inconspicuously to determine if surface is suitable before continuing*.

APPLICATION: Formulated for use with either airless or conventional air atomized spray equipment. See equipment manufacturer's recommendations. Recommended paint thickness is 15 mils wet. For best results apply when air and surface temperature are above 40°F and relative humidity is below 85%.

THINNING & CLEANING: ***Federal and state regulations prohibit dilution of this product. DO NOT THIN.*** Toluene may be used for cleaning.

SHELF LIFE: 3 months minimum in an unopened container stored @ 77ºF out of direct sunlight indoors. It is recommended to order only what you are able to use in this time frame.

STORAGE: Store in a cool dry area, indoors, and out of direct sunlight.

Never mix waterborne and alkyd traffic paints!

Typical values:

	2040 WHITE	2041 YELLOW	2042 GREEN	2043 BLACK	2044 BLUE	2045 RED
Coverage/Gal (15 mils wet 4" line)	320'	320'	320'	320'	320'	320'
Dry Time Minutes 15 mils (ASTM D-711)	8	8	8	8	8	8
Dry Opacity (Hiding)	0.96	0.96	N/A	N/A	N/A	N/A
Viscosity-KU (Kreb Units)	80-84	80-84	80-84	80-84	80-84	80-84
Weight/Gallon (lbs.)	12.6	12.4	12.5	12.6	12.5	12.3
Directional Reflectance (Cap Y)	85	50	N/A	N/A	N/A	N/A
VOC's-Pounds/Gallon	1.10	1.10	1.12	1.10	1.13	1.11
% Total Pigment (By Weight)	58.7	58.2	57.1	58.4	57.1	57.1
% Total Solids (By Weight)	76.6	76.5	76.0	76.6	76.1	75.7
% Total Solids (By Volume)	55.1	55.9	55.3	55.6	55.5	55.0
% Total Non-Volatile Vehicle (By Weight)	41.3	41.8	42.9	41.6	42.9	42.9

Vehicle Type- **Medium oil solvent based alkyd, modified with chlorinated rubber**

Atlantic Pavement Marking Inc.

Item: **Pavement Lines:Pavement Lines:Pavement Lines:Double Yellow Lines (Measure as a pair of 4" lines)**

Attachments

Ins Certificate CROCG Bid 681.pdf

ACORD®

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 12/11/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
John M. Glover Agency
1068 West Main Street
Waterbury CT 06708

CONTACT NAME: Nicole Lynn Edgington
PHONE (A/C, No, Ext): 860-357-9072 **FAX (A/C, No):** 860-356-0932
E-MAIL ADDRESS: nedgington@johnmglover.com

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : The Travelers Indemnity Company	25658
INSURER B : The Charter Oak Fire Insurance Company	25615
INSURER C : Travelers Property Casualty Company of America	25674
INSURER D :	
INSURER E :	
INSURER F :	

INSURED ATLAPAV-01
Atlantic Pavement Marking, Inc.
15 Industrial Road
Prospect CT 06712

COVERAGES **CERTIFICATE NUMBER:** 1636905782 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X **COMMERCIAL GENERAL LIABILITY** CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY X PRO-JECT LOC OTHER:	Y	Y	DT-CO-6J973665-IND-18	7/13/2018	7/13/2019	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 1,000,000 $ 300,000 $ 5,000 $ 1,000,000 $ 2,000,000 $ 2,000,000
B	**AUTOMOBILE LIABILITY** X ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS HIRED AUTOS NON-OWNED AUTOS	Y	Y	DT-810-6J853888-COF-18	7/13/2018	7/13/2019	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ $ $
C	UMBRELLA LIAB X OCCUR X **EXCESS LIAB** CLAIMS-MADE DED X RETENTION $ 10,000	Y	Y	CUP-7J004409-18-26	7/13/2018	7/13/2019	EACH OCCURRENCE AGGREGATE	$ 5,000,000 $ 5,000,000
B	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y / N: N **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N / A	Y	UB-7J003751-18-26-G	7/13/2018	7/13/2019	X PER STATUTE OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ 1,000,000 $ 1,000,000 $ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
If awarded contract then policies will be amended as follows; Town of West Hartford and West Hartford Board of Education are additional insured with respect to general liability, auto liability, and umbrella liability if required by written contract with the insured executed prior to a loss. Additional insured with respect to general liability including completed operations on a primary and non-contributory basis if required by written contract with the insured executed prior to a loss. Additional insured with respect to auto liability on a primary and non-contributory basis if required by written contract with the insured executed prior to a loss. Waiver of subrogation applies in their favor with respect to general liability, auto liability, umbrella liability, and workers compensation if required by written contract with the insured executed prior to a loss.

CERTIFICATE HOLDER

Town of West Hartford
50 South Main St
West Hartford CT 06107-2431

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE
John O. Forlenio

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Atlantic Pavement Marking Inc.

Item: **Pavement Lines:Pavement Lines:Pavement Lines:Pavement Lines:Double Yellow Lines (Measure as a pair of 4" lines)**

Attachments

Ins Certificate Bid 681 .pdf

ACORD®

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 12/12/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
John M. Glover Agency
1068 West Main Street
Waterbury CT 06708

CONTACT NAME: Nicole Lynn Edgington
PHONE (A/C, No, Ext): 860-357-9072 **FAX (A/C, No):** 860-356-0932
E-MAIL ADDRESS: nedgington@johnmglover.com

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : The Travelers Indemnity Company	25658
INSURER B : The Charter Oak Fire Insurance Company	25615
INSURER C : Travelers Property Casualty Company of America	25674
INSURER D :	
INSURER E :	
INSURER F :	

INSURED ATLAPAV-01
Atlantic Pavement Marking, Inc.
15 Industrial Road
Prospect CT 06712

COVERAGES **CERTIFICATE NUMBER:** 1066963854 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X **COMMERCIAL GENERAL LIABILITY** CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY X PRO-JECT LOC OTHER:	Y	Y	DT-CO-6J973665-IND-18	7/13/2018	7/13/2019	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 1,000,000 $ 300,000 $ 5,000 $ 1,000,000 $ 2,000,000 $ 2,000,000
B	**AUTOMOBILE LIABILITY** X ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS HIRED AUTOS NON-OWNED AUTOS	Y	Y	DT-810-6J853888-COF-18	7/13/2018	7/13/2019	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ $ $
C	UMBRELLA LIAB X OCCUR X **EXCESS LIAB** CLAIMS-MADE DED X RETENTION $ 10,000	Y	Y	CUP-7J004409-18-26	7/13/2018	7/13/2019	EACH OCCURRENCE AGGREGATE	$ 5,000,000 $ 5,000,000
B	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y / N: N / N/A If yes, describe under DESCRIPTION OF OPERATIONS below		Y	UB-7J003751-18-26-G	7/13/2018	7/13/2019	X PER STATUTE OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ 1,000,000 $ 1,000,000 $ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
If awarded contract then policies will be amended as follows; Capital Region Purchasing Council is included as an additional insured on a primary and non-contributory basis under the General Liability and Automobile Liability policies if required by written contract executed prior to a loss. With respect to general liability for completed operations if required by written contract with the insured executed prior to a loss. Additional insured with respect to umbrella liability if required by written contract with the insured executed prior to a loss. A waiver of subrogation in favor of the additional insured applies under the General Liability, Auto Liability, Umbrella liability, and Workers Compensation policy if required by written contract executed prior to a loss.

CERTIFICATE HOLDER

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

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE
John A. Forlini

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Supplier: **Atlantic Pavement Marking Inc.**

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.

Supplier: **Atlantic Pavement Marking Inc.**

CRPC #681

CAPITOL REGION PURCHASING COUNCIL
INVITATION FOR BID
TRAFFIC GUIDELINES

BID SPECIFICATION

I. MODIFICATIONS TO GENERAL TERMS AND CONDITIONS

INTENT

The Capitol Region Purchasing Council, on behalf of certain CRPC members, requests bids for TRAFFIC GUIDELINES for the contract period of January 1, 2019 through December 31, 2019. Each respective CRPC member will make its own awards and payments according to the terms and conditions set forth in these specifications. A written order from each CRPC member will be required before any work is started, and shall contain information concerning the quantity and type of traffic guidelines required, the desired materials to be used, the preferred work schedule, and any other relevant data.

In general, the specifications in the federal government's Manual on Uniform Traffic Control Devices (MUTCD) 2003 edition, as amended and the State of Connecticut Department of Transportation's Standard Specifications for Roads, Bridges and Incidental Construction (Form 816), as amended will apply. A copy of Form 816 may be downloaded off of the CONNDOT website at http://www.ct.gov/dot/cwp/view.asp?a=1385&Q=506628&PM=1 . In general, specifications for pavement marking tape found in ASTM D4505 will apply.

BID AWARD

A bid award shall be made by each respective CRPC member to the lowest responsible bidder(s). 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 CRPC member 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. Note that service and scheduling shall be major factors in awarding the contract, and shall consist of the contractor's availability to return to do small jobs during the contract period, as well as to perform work during off-hours (e.g., nights, weekends). Note that the CRPC members reserve the right to make their awards on a section-by-section basis in order to take advantage of the most favorable bid price for each item.

ESTIMATED QUANTITIES

The quantities specified herein are estimates only and have been provided for the purpose of

competitive bidding. Actual quantities will be contingent upon the total number of CRPC members which decide to make an award off this bid (as participation is voluntary), the needs of the using departments of the various CRPC members and changes in State Traffic Commission regulations. Furthermore, budget reductions may make it impossible for a CRPC member to undertake some or all of the proposed work. The determination of the type of lines to be used will be made by the individual CRPC member under the guidance of the State Traffic Commission.

INSURANCE

All respondents are required to submit, **with their bids**, a copy of the cover sheet from their insurance policy(ies) (or an equivalent piece of documentation) which demonstrates the firm's current coverages and limits for General Liability, Automobile Liability and Worker's Compensation Insurance.

BID SURETY

A bid bond is not required for this bid. A performance bond in the amount of one hundred percent (100%) of each Purchase Order may be required of the successful bidder.

II. TECHNICAL SPECIFICATION, ADDITIONAL REQUIREMENTS

1. **GENERAL DESCRIPTION OF WORK TO BE ACCOMPLISHED**

The awarded contractor(s) shall be responsible for providing high quality PAVEMENT MARKINGS services in accordance with the attached specifications. All work performed shall be done in conformance with applicable sections of the Manual of Uniform Traffic Controls (MUTCD) 2003 edition as amended and the State of Connecticut Department of Transportation's Standard Specifications for Roads, Bridges and Incidental Construction Form 816, as amended. Pavement Marking Tape shall conform with the ASTM D4505 standard.

For painted markings, the drop-on method of application shall be used, consisting of a combination of pigmented binder and glass spheres, which will provide a reflective surface marking on highway pavements. All paint used must be compliant with applicable federal, state or local environmental regulations.

Pavement marking tape shall comply with the specifications in ASTM D4505 of latest issue.

2. **SCOPE OF SERVICES**

All-inclusive bids (materials and installation of traffic guidelines) shall be submitted covering labor, equipment and materials for the items listed in the bid response. Such work shall include related clean-up, control of location points, protection of the line, and traffic control, as described below.

a. Clean Up:

Upon suspension or completion of the work, the Contractor shall remove all materials, equipment and rubbish and shall leave the premises in a neat and orderly condition.

b. Control of Location Points:

All layout work shall be the responsibility of the Contractor and the Contractor shall also be responsible for establishing location points of solid or center lines in accordance with State Traffic Commission Regulations. Any special situations shall be referred to the Supervisor for instructions. Guidelines shall meet all pedestrian crosswalk lines and not cross them. At intersections which do not have pedestrian crosswalks marked, the Contractor shall stop his markings at points designated or as ordered by the Supervisor.

c. Protection of the Line:
The Contractor shall furnish all guards or forms of protection of approved design to protect the markings from all traffic until it is hard dry to no pickup and suitable for use. The Contractor shall use every precaution to protect newly painted lines from tracking, and to prevent spilling of paint on the pavement. To supplement the line guards, should the Supervisor deem it necessary, the services of a uniformed town police officer or officers will be requested from the Police Department.

d. Traffic Control Work:
As markings are to be applied on heavily traveled streets, the proper handling of traffic is a major consideration. Traffic shall not be impeded and work shall be carried out in such locations and at such times and sections as the Supervisor may direct. All work must be done with a minimum of inconvenience to the general public. In areas of high traffic volume, the work may have to be done during off-peak hours, including evening/weekend hours.

3. **DEFINITIONS: CONTRACTORS TO SUBMIT PLANS, ETC.**
Traffic Supervisor, or Supervisor, as used herein, shall mean the Traffic Authority of any CRPC member or the authorized agent.

CRPC member as used herein shall mean all of the CRPC members party hereto or any single CRPC member included, depending upon the proper meaning of the article or clause.

When requested to do so by the Traffic Supervisor, the Contractor shall furnish the CRPC member with a plan or a written statement of methods, which the Contractor proposes to use, and said plans or methods shall be approved by the Supervisor before any work proceeds.

4. **EMPLOYEES**
The Contractor shall employ only competent, faithful and skilled persons to do the work. Whenever the Supervisor shall notify the Contractor that any person on the job is, in his opinion, incompetent or unfaithful, such person shall be discharged promptly from the work and shall not be employed again on the job.

5. **EXPERIENCE**
Each respondent must submit satisfactory evidence as part of their bid proposal demonstrating experience painting traffic lines on public roads and knowledge of regulations established by the State Traffic Commission, including the most recent regulations. The Contractor shall further guarantee that any employee operating traffic line marking machinery is experienced in operating a machine of this type and competent in its use.

A list of at least three (3) municipalities/public agencies where this type of work has been performed during the past two (2) years shall be furnished, including contact persons and phone numbers. (See the bid specific Information Sheet.)

6. **TIME OF STARTING AND COMPLETION**
The Contractor may be requested to start work within seven (7) days of receipt of order, depending on the agreement with the Supervisor of any single CRPC member awarding such contract. All work under any contract awarded as a result of this bid shall be completed within thirty (30) days of receipt of the order unless a specific agreement with a particular Supervisor provides for a later completion date. If physical conditions prevent adherence to this time schedule, the Supervisor of the particular CRPC member shall make arrangements

necessary for performance of the work. It is understood that a CRPC member may take appropriate action if an unreasonable delay is encountered beyond the thirty (30) day period mentioned above.

It is also understood that should delays occur, the Contractor will prioritize rescheduling efforts to expedite completion and minimize CRPC member exposure from unmarked roadways.

Note: Equipment breakdown shall not be considered a valid cause for a time extension request. The contractor shall be expected to have backup equipment available.

7. **LIQUIDATED DAMAGES**

The Contractor agrees that the municipality may retain the sum of One Hundred Dollars ($100) from the amount of the compensation to be paid to the Contractor for each day in excess of the number of working days stipulated in the Specifications that work remains incomplete. This amount is agreed upon as the proper measure of liquidated damages which the municipality will sustain per day by failure of the Contractor to complete the work within the number of working days stipulated. This is not to be construed in any sense as a penalty. **A CRPC member may, at its discretion, require a performance bond of 100% of the value of the contract to ensure the prompt and satisfactory completion of the work.**

8. **DEFINITION OF WORKING DAYS**

Working days are hereby defined as follows: A calendar day of eight (8) working hours; holidays and periods of inclement weather during which no work is done are excluded. **Note that many of the participating CRPC members will require some or all of their work to be done during off hours (e.g., nights, weekends). Accordingly, respondents are asked to verify their availability to do work at such time for any requesting community on the bid's Information Sheet.**

9. **PAVEMENTS TO BE MARKED**

Markings shall be applied mainly on sheet asphalt and bituminous concrete pavements.

10. **MATERIALS**

All materials shall be in accordance with the State of Connecticut, Department of Transportation, Standard Specifications for Roads, Bridges and Incidental Construction Form 816, as amended unless otherwise noted:

Paint:

All Paint shall:

a. Meet applicable requirements for:
   Waterborne Paint - Section M.07.20
   Hot-Applied Waterborne Paint – Section M.07.21
   Oil-Based paint - DOT Form 814a, Section M.07.20, 15 Minute Dry Pavement Marking Paint, (attached).
b. Be compliant with all federal, state and local environmental regulations.
c. Be highly resistant to traffic wear and the effects of weathering.

It should be noted that Waterborne, Hot Applied Waterborne and Oil-Based Paint options are available as part of this bidding effort to meet the needs and preferences of all participating CRPC members. **Respondents are asked to include, as part of their response, a manufacturer spec sheet for the paint that will be**

used to perform the work.

Glass Beads:
Standard reflectorizing glass beads, in accordance with Section M.07.30, are required for application of traffic paint to produce a reflective surface. The glass beads shall be manufactured of glass of a composition designed to be highly resistant to traffic wear and the effects of weathering.

Thermoplastic Material:
Some CRPC members may require the use of thermoplastic material in lieu of paint for certain detail work in specific locations. Material used for this purpose and the method of application shall have been proven to be satisfactory. **Respondents are asked to include, as part of their response, a manufacturer spec sheet for the material that will be used to perform the work.**

Epoxy Resin Pavement Markings:
CRPC members may require epoxy resin pavement markings. To this end, vendors shall furnish and install epoxy resin pavement markings in accordance with Section 12.10 - Epoxy Resin Pavement Markings, Symbols, and Legends and Section M.07.22 - Epoxy Resin Pavement Markings. **Respondents are asked to include, as part of their response, a manufacturer spec sheet for the material that will be used to perform the work.**

Pavement Marking Tape
CRPC members may require permanent pavement marking tape. To this end, vendors shall furnish, install, and remove pavement markings in accordance with ASTM D4505 of latest issue. **Respondents are asked to include, as part of their response, a manufacturer spec sheet for the material that will be used to perform the work.**

11. METHOD OF CONSTRUCTION FOR PAINT

Equipment:
On the information sheet, each respondent shall note all equipment that he/she owns and will use in performing this contract. The respondent shall also indicate any other machines available to him/her through lease, etc. Hot application may be required for painting lines, either white, yellow or both.

Procedure
The surface upon which marking materials are to be applied shall be completely dry and free from moisture and dirt. Sufficient time must elapse after any rain or heavy dew to allow the surface to become thoroughly dry prior to placing any reflective material. Marking material shall be applied only under favorable and suitable conditions, and no marking material shall be placed unless the air or pavement temperature is 45° or above. The Contractor will be held liable for any marking material applied which does not stand up to normal traffic uses for a period of ninety (90) days.

The pigmented binder shall be applied by a self-propelled, motorized, paint spray machine capable of supplying traffic marking paints. It shall be capable of painting double lines at one time and simultaneously depositing reflecting glass beads on both lines in equal volume.

The painting shall be accomplished in a workmanlike manner, with lines well defined. The binder shall be applied to a wet film thickness of .015 inches (unless otherwise

specified by a municipality) and at a rate of not less than one hundred (100) square feet and not more than one hundred ten (110) square feet of surface per gallon of binder.

The glass spheres shall be applied immediately to the pigmented binder following application at a rate of six (6) pounds per gallon of binder.

The glass spheres shall be evenly distributed over the entire width of the line. It is intended that the pigmented binder will bind the glass spheres in such a manner that it will produce maximum adhesion, refraction and reflection.

Maintenance

The Contractor shall keep and maintain their work in good repair for a period of ninety (90) days from the date of completion of the work on the respective streets. It is agreed and understood that the Contractor will at any time during this period, upon notification in writing from the Supervisor, and without expense to the CRPC member, immediately execute all repairs which may be necessary, as determined by said Supervisor by reason of defective workmanship or pavement/roadway use.

12. **PAVEMENT PATCHES**

The Contractor will not be held liable for markings applied over utility cuts in the pavement or for any cuts in the pavement after line has been marked.

13. **PAVEMENT MARKINGS**

A. Pavement Lines

Paint shall be applied by truck and include centerlines, lane lines and shoulder lines. Pavement Marking Tape shall be precoated, on its bottom side, with a pressure-sensitive adhesive for adherence to HMA or PCC surfaces. Pavement Marking Tape shall be of the specified dimension and shape with clean-cut, well-defined edges, of good appearance, and free of cracks or other defects.

Unless otherwise noted, the price shall be per **linear foot** (lf) of paint/tape applied to the pavement.

Centerlines:

Shall be four (4) inches wide (single or double), white or yellow lines, and may include centerline tails on stop bars. For painted lines, the drop-on method of application shall be used, consisting of a combination of pigmented binder and glass spheres which, when properly applied, will provide a retrodirective reflecting marking for horizontal highway surfaces. Single and double line bids shall be per linear foot.

Skip Lines:

Shall be four (4) inches wide; white lines, consisting of a fifteen (15) foot segment and thirty (30) foot skip, except as directed by the Supervisor. On a street with more than one guideline, the sections shall line up approximately across the street. Enfield, Manchester, Rocky Hill, West Hartford and Windsor included requirements for a ten (10) foot segment and a thirty (30) foot skip. Note: this item shall be measured and priced per linear foot; only sections of pavement where markings are actually applied (not bare pavement) shall be included in the payment calculation.

Pavement Lane/Edge Lines:

Shall be four (4) inches; white or yellow lines, as directed by each municipality. This

category is intended to cover the varied needs of the participating towns. Work covered hereunder may therefore include edge lines, shoulder lines, median lines, etc.

B. Painted Legends, Arrows and Markings

Paint shall be applied by a hand-striping machine. Pavement Marking Tape shall be precoated, on its bottom side, with a pressure-sensitive adhesive for adherence to HMA or PCC surfaces. Pavement Marking Tape shall be of the specified dimension and shape with clean-cut, well-defined edges, of good appearance, and free of cracks or other defects.

Markings shall include stop bars, arrows, parking stalls, crosswalks, curbs and other miscellaneous details. Unless otherwise noted, price shall be per **square foot** applied to the pavement.

Note: Attached are the Connecticut DOT "Special Details and Typical Pavement Markings for Two–Way Highways" sheet and a CRCOG-generated "Supplemental Pavement Marking Special Details" sheet that was created for illustrative purposes only. As the latter document states, the awarded Contractor(s) shall consult with authorized municipal representatives to verify/finalize municipality specific dimensions and stenciling requirements.

Stop Bar Lines:
Shall be a minimum twelve (12) inches wide; solid white lines, normally four (4) feet in advance of and parallel to the nearest crosswalk line.

Arrows:
On public streets, arrows shall be white and to dimensions shown in the attached detail. Off streets, arrows shall be white unless otherwise directed.

Parking Stall Lines and Parallel Parking T-Bars:
Lines shall be four (4) inches wide, solid white lines or the color directed by the municipality.

Crosswalks:
Crosswalks utilizing parallel lines shall have a minimum six (6) inches wide white line to a maximum twenty-four (24) inches wide white line spaced not less than six (6) feet apart. Cross-hatching may be required in some cases.

An alternate crosswalk specification for the State of Connecticut Department of Transportation Standard Crosswalk requires 16" wide bars or 24" wide bars at School/Elderly crossings (see attached diagram). These crosswalk specifications are optional and are **not mandated** by state law.

Miscellaneous Detail Work:
This category is intended to cover a broad range of detail work, including, but not limited to railroad crossings, bicycle path diamonds, sharrows, stenciling, speed bumps, crosshatching, and fire lanes.

Railroad Crossings
At grade railroad crossings shall be painted with reflectorized white marking paint/tape. They shall consist of an X, the letters RR and transverse lines (stop bars) as shown on the attached detail.

Stenciling Work
Shall include painting of numbers, words and symbols in the color directed by the

municipality.

Curbs:
Shall be painted yellow or the color directed by the municipality. Note that curb work shall be priced by the **linear foot**.

Handicapped Stencils:
To be priced per each.

14. **REMOVAL OF MARKINGS**

The removal of painted or pavement marking tape markings shall be performed in accordance with Section 12.11 of the State of Connecticut Department of Transportation's Standard Specifications for Roads, Bridges and Incidental Construction, Form 816, as amended.

15. **BASIS FOR PAYMENT**

In estimating the length of centerlines, CRPC members have included the length of gaps in broken lines. Billing shall be figured for these total lengths, but it is not intended that payment will be made for the gaps in which no paint/tape is applied. Quotations should, therefore, take into consideration the fact that a certain portion of the broken line lengths will not require paint/tape. The Contractor will measure for payment the actual footage of other markings applied, subject to review by the Supervisor.

In general, paint applied by truck mounted machine will be paid for at the unit price per linear foot (LF) and paint applied by hand machine will be paid for at the unit price per square foot (SF) for the type of paint applied.

16. **VENDOR PERFORMANCE/LIABILITY FOR SERVICE FAILURES**

Failure of any successful bidder to adhere to the 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 municipalities 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 provide the contracted services within the time specified or if the services are rejected by the municipality, the municipality may obtain such services 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.

Supplier: **Atlantic Pavement Marking Inc.**

CRPC #681

CAPITOL REGION PURCHASING COUNCIL
INVITATION FOR BID
TRAFFIC GUIDELINES

INFORMATION SHEET

1. **Number of years the bidder has been in business: 37**

2. **The following is a list of the equipment OWNED by the bidder which will be available for the performance of any contract resulting from the bid:**

Truck No.	Year/Description	Gross Vehicle Weight
1	**2005 GMC Custom Paint Truck 1200 gals, Footage Counters, Flow Meters**	**33,000**
2	**2005 Peterbuilt Custom Paint Trucks, Flow Meters**	**38,000**
3	**2002 Freightliner Tanker , 1600 Gallons**	**54,000**

3. **The following is a list of equipment available to the bidder through LEASE, LOAN or other arrangements that will be available for the performance of any contract resulting from the bid:**

Truck No.	Year/Description	Gross Vehicle Weight

4. **References: During the last two years, the bidder performed road-marking work for the following public bodies (federal, State, municipal, etc.):**

Public Entity	Contact Person Address	Telephone #
Town of	**Henry McCully 29 Town Farm Rd.**	**203-294-2105**

Wallingford, Dept of Public Works	**Wallingford, CT 06492**	
City of Meriden, Traffic Dept	**Kevin Munson 55 Micael Dr. Meriden, CT 06450**	**203-630-4253**
Town of Cheshire, Police DEpt.	**Lt. Kerry Deegan 500 Hoghland Ave. Cheshire, CT 06410**	**203-271-5500**

5. **Has the bidder ever failed to complete awarded work? If so, state where and why.**
   No

6. **Does the bidder plan to sublet any part of the work? If so, give details:**
   No

7. **Paint Analysis:**

8. **Paint Manufacturer: Franklin Paint**
   (Please attach manufacturer specification sheets for all paint and materials (epoxy, thermosplastic) that will be used to perform work under resulting contracts.

9. **Is the bidder available to work off-hours, including night hours, if so requested by a/the participating municipality (ies)?**

   ☑ **YES**
   ☐ **NO**

   Other scheduling limitations?

Supplier: **Atlantic Pavement Marking Inc.**

Insurance Exhibit (West Hartford)

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

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

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

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

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

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

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

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

Richard J Stewart
Duly Authorized

12/13/18
Date

Richard J Stewart
(Print Name Here)

Supplier: **Atlantic Pavement Marking Inc.**

GENERAL VENDOR INFORMATION

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

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

COMPANY

Atlantic Pavement Marking Inc.

REPRESENTATIVE

Richard Stewart

POSITION

President

ADDRESS

15 Industrial Road

Prospect CT

(ZIP)

06712

TELEPHONE #

203-758-0800

FAX #

203-758-0733

TAX ID #
06-0948555

E-MAIL ADDRESS

office@atlpavemarking.com

SIGNATURE

Richard J Stewart

PAYMENT TERMS: **Upon Rec**%Days

DATE: **12/12/18**

Safety Marking, Inc.

Bid Contact **Caroline Sumner**
csumner@safetymarking.net
Ph 203-333-6870
Fax 203-814-3463

Address **255 Hancock Avenue**
Bridgeport, CT 06605

Bid Notes **See Attachment**

Item #	Line Item Notes		Epoxy Resin	Waterborne Paint	Hot Applied Waterborne Paint	Oil Base Paint	Thermo Plastic	Pavement Marking Tape	Pavement Marking Tape - Materials Only	Attch.	Docs
681--01-01	Pavement Lines: 4" Single Yellow or White Lines	**Supplier Product Code:**	First Offer - $0.254	$0.045	$0.045		$0.90	$2.00	$1.00	**Y**	**Y**
681--01-02	Pavement Lines: Double Yellow Lines (Measure as a pair of 4" lines)	**Supplier Product Code:**	First Offer - $0.49	$0.083	$0.083		$1.80	$4.00	$2.00	**Y**	**Y**
681--01-03	Pavement Lines: Double Yellow Lines (Measure as a pair of 4" lines)	**Supplier Product Code:**	First Offer - $0.49	$0.083	$0.083		$1.80	$4.00	$2.00	**Y**	**Y**
681--01-04	Pavement Lines: Double Yellow Lines (Measure as a pair of 4" lines)	**Supplier Product Code:**	First Offer - $0.49	$0.083	$0.083		$1.80	$4.00	$2.00	**Y**	**Y**
681--01-05	Pavement Lines: White Skip Lines; 15' segment & 30" skip	**Supplier Product Code:**	First Offer - $0.254	$0.045	$0.045		$0.90	$2.00	$1.00		**Y**
681--01-06	Pavement Lines:	**Supplier Product**									**Y**

	White Skip Lines; 10' segment & 30" skip	**Code:**	First Offer - $0.254	$0.045	$0.045	$0.90	$2.00	$1.00		

Lot Total $38.10

Item #	Line Item	Notes	Epoxy Resin	Waterborne Paint	Hot Applied Waterborne Paint	Oil Base Paint	Thermo Plastic	Pavement Marking Tape	Pavement Marking Tape - Materials Only	Attch.	Docs
681--02-01	Legends, Arrows and Markings: Single Arrows: Thru Arrows, 12.5 s.f.; Turn Arrows, 15.5 s.f.	**Supplier Product Code:**	First Offer - $2.98	$0.89	$0.89		$3.00	$5.50	$3.75		**Y**
681--02-02	Legends, Arrows and Markings: Combination Arrows - Two Way, 27 s.f.; Three Way, 28.5 s.f.	**Supplier Product Code:**	First Offer - $2.98	$0.89	$0.89		$3.00	$5.50	$3.75		**Y**
681--02-03	Legends, Arrows and Markings: Parking Stalls 4" wide	**Supplier Product Code:**	First Offer - $4.25	$0.99	$0.99		$2.85	$5.75	$3.75		**Y**
681--02-04	Legends, Arrows and Markings: Parallel T-Bar	**Supplier Product Code:**	First Offer - $4.25	$0.99	$0.99		$2.85	$5.75	$3.75		**Y**
681--02-05	Legends, Arrows and Markings: Crosswalks 6 inch	**Supplier Product Code:**	First Offer - $2.95	$0.89	$0.89		$2.85	$5.75	$3.75		**Y**
681--02-06	Legends, Arrows and Markings: Crosswalks 12 inch	**Supplier Product Code:**	First Offer - $2.95	$0.89	$0.89		$2.85	$5.75	$3.75		**Y**
681--02-07	Legends, Arrows and Markings: Crosswalk 12 inch with crosshatch	**Supplier Product Code:**	First Offer - $2.78	$0.89	$0.89		$2.85	$5.75	$3.75		**Y**

681--02-08	Legends, Arrows and Markings: Standard Crosswalk with 16" wide bars	**Supplier Product Code:**	First Offer - $2.78	$0.89	$0.89	$2.85	$5.75	$3.75	**Y**
681--02-09	Legends, Arrows and Markings: School/Elderly Standard Crosswalks with 2' wide bars	**Supplier Product Code:**	First Offer - $2.78	$0.89	$0.89	$2.85	$5.75	$3.75	**Y**
681--02-10	Legends, Arrows and Markings: Miscellaneous Detail	**Supplier Product Code:**	First Offer - $3.95	$0.89	$0.89	$3.25	$6.00	$3.75	**Y**
681--02-11	Legends, Arrows and Markings: Railroad Crossing (20' x 8' x 16": 67.5 s.f.)	**Supplier Product Code:**	First Offer - $3.50	$0.89	$0.89	$3.00	$5.75	$3.75	**Y**
681--02-12	Legends, Arrows and Markings: Bicycle Path Diamonds (4 sides, each measuring 3' x 6")	**Supplier Product Code:**	First Offer - $3.85	$0.99	$0.99	$3.00	$5.75	$3.75	**Y**
681--02-13	Legends, Arrows and Markings: Bicycle Symbol with Arrow	**Supplier Product Code:**	First Offer - $125.00	$68.00	$68.00	$150.00	$250.00	$125.00	**Y**
681--02-14	Legends, Arrows and Markings: Stenciling (letters and numbers)	**Supplier Product Code:**	First Offer - $39.00	$6.50	$6.50				**Y**
681--02-15	Legends, Arrows and Markings: Curbs	**Supplier Product Code:**	First Offer - $2.99	$0.30	$0.30				**Y**
681--02-16	Legends,	**Supplier**							**Y**

	Arrows and Markings: Handicapped Stencils - EACH	**Product Code:**	First Offer - $48.00	$17.50	$17.50		$200.00	$100.00	
681--02-17	Legends, Arrows and Markings: Removal of Markings	**Supplier Product Code:**	First Offer - $1.05	$1.05	$1.05	$1.05	$1.05		**Y**
681--02-18	Legends, Arrows and Markings: 12" stop bars	**Supplier Product Code:**	First Offer - $2.99	$0.89	$0.89	$3.25	$5.75	$5.75	**Y**
681--02-19	Legends, Arrows and Markings: Sharrows	**Supplier Product Code:**	First Offer - $94.00	$58.00	$58.00				**Y**

Lot Total **$1,670.27**

Item #	Line Item	Notes	Price Per Linear Foot	Attch.	Docs
681--03-01	Recessed Pavement Marking Grooves: 80 MIL Pavement Marking Groove, 5" Wide	**Supplier Product Code:**	First Offer - $0.50		**Y**
681--03-02	Recessed Pavement Marking Grooves: 80 MIL Pavement Marking Groove, 7" Wide	**Supplier Product Code:**	First Offer - $0.74		**Y**
681--03-03	Recessed Pavement Marking Grooves: 80 MIL Pavement Marking Groove, 9" Wide	**Supplier Product Code:**	First Offer - $0.89		**Y**
681--03-04	Recessed Pavement Marking Grooves: 80 MIL Pavement Marking Groove, 13" Wide	**Supplier Product Code:**	First Offer - $1.14		**Y**
				Lot Total	$3.27

Safety Marking, Inc.

Item: **Pavement Lines:4" Single Yellow or White Lines**

Attachments

EpoplexSubmittalMSDS2016.pdf

Epoxy Submittal.pdf

LS50 Gen Apps Spec.pdf

LS50 LF YELLOW A GHSSDS English.pdf

LS50 WHITE A GHSSDS English.pdf

LS50 HARDENER GHSSDS English.pdf

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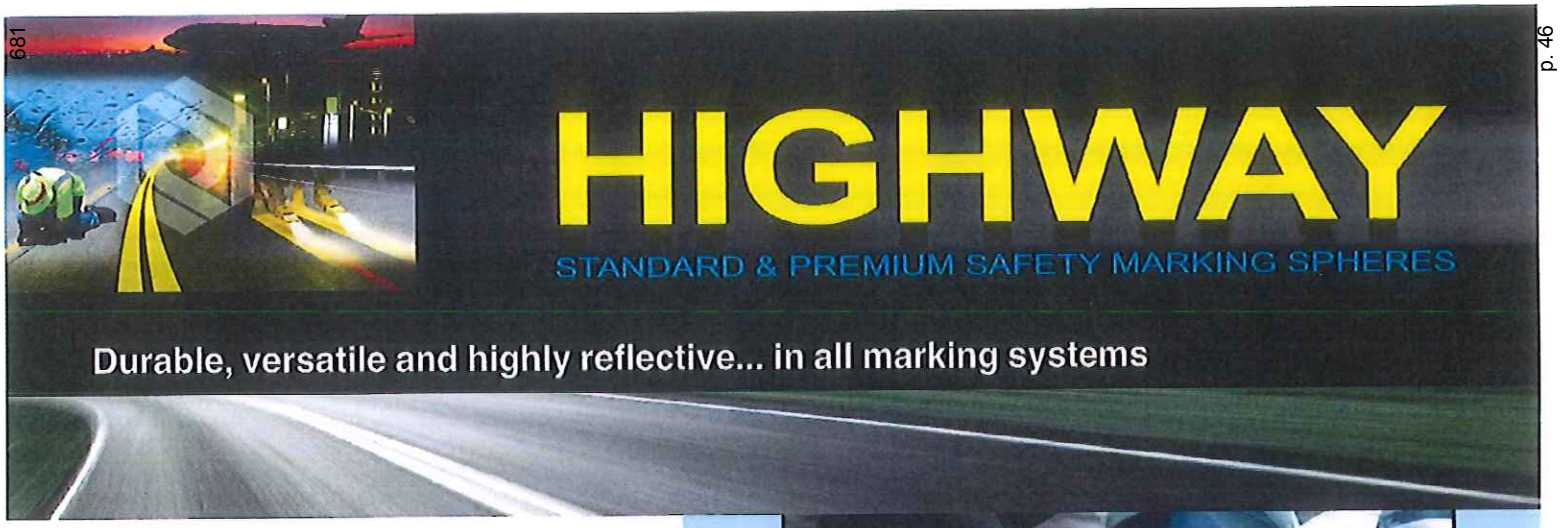

HIGHWAY

STANDARD & PREMIUM SAFETY MARKING SPHERES

Durable, versatile and highly reflective... in all marking systems

STANDARD

Potters Standard Highway Spheres—Cost-effective Highway Delineation

- Retroreflective pavement markings deliver continuous roadway guidance to drivers and have been proven to increase highway safety.
- Our Standard Highway Marking Spheres provide cost-effective nighttime roadway delineation, and can meet any specific standard glass bead specification in North America.
- Our Standard spheres are consistent in quality and composition. Strict quality control produces spheres that optimize retroreflectivity. Proprietary coatings are available to resist agglomeration, ensure flotation for ideal embedment and improve adhesion for greater durability.
- Standard spheres may be applied as a drop-on in all commercial binders, including waterborne paint, epoxy, polyester, thermoplastic, PMMA and polyurea.
- Our beads meet the rigorous heavy metals limitations set forth by state and federal standards.

Standard Spheres: Facts and Figures

- **Size:** 20–80 mesh (850–150 microns); a range of sizes offsets effects of traffic/binder degradation.
- **Compatible binders:** waterborne or solvent-based paint, epoxy, polyester, thermoplastic, PMMA, polyurea
- **Standards:** Spheres can be supplied to meet state specifications for gradation (size), roundness and coatings. Potters Industries is able to supply glass beads which meet any specific standard glass bead specification in North America.

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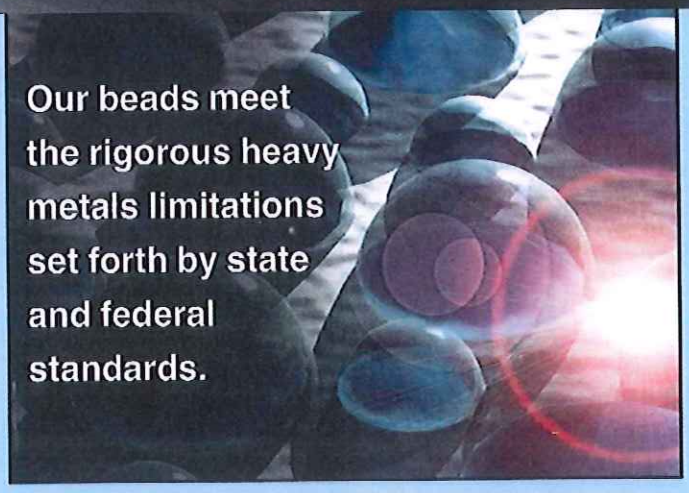
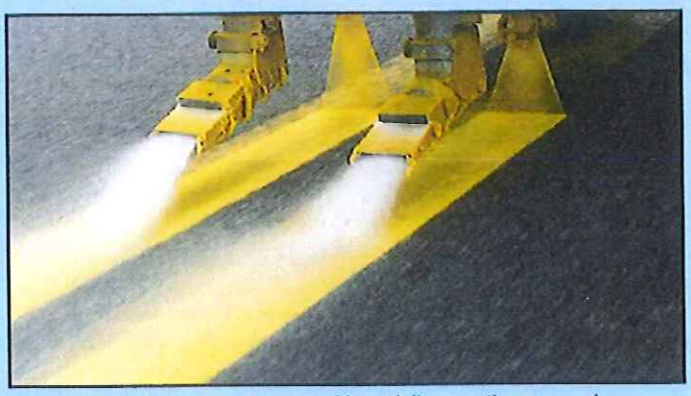
Potters respects the environment by recycling over one billion pounds of glass each year.



Typical Standard Bead Size

U.S. Mesh Size	Millimeters	Mass % Passing
16	1.18	100
20	0.850	95-100
30	0.600	75–95
50	0.300	15–35
100	0.150	0–5

AASHTO M-247, Type 1, Roundness—70%, 75%, and 80% overall by sieve size.



Potters retroreflective pavement markings deliver continuous roadway guidance to drivers and have been proven to increase highway safety.

See Your Potters Representative or Call (800) 55-BEADS
Visit Us On The Web at www.pottersbeads.com

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VISIBEAD®

HIGHWAY SAFETY MARKING SPHERES

Durable, versatile and highly reflective... in all marking systems

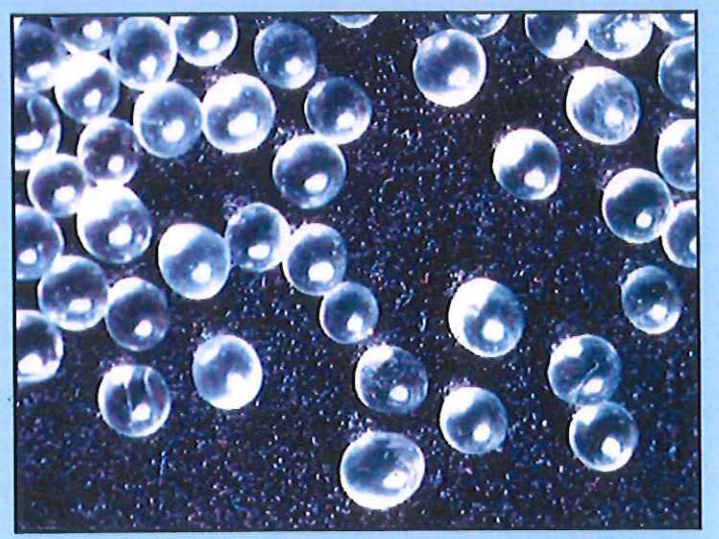
VISIBEAD® Is Clearly Superior For Adverse Weather Conditions

- VISIBEAD Highway Safety Marking Spheres enhance drivers' nighttime visibility, particularly in rain, fog or melting snow, for dramatic improvements in mobility and highway safety.
- Because VISIBEAD spheres are three to four times larger than conventional glass beads, they stand higher above the surface of the line than conventional beads, delineating highway markings clearly and providing superior wet night visibility.
- Potters Industries manufactures VISIBEAD spheres using proprietary technology to ensure consistent quality, improved durability and unique clarity. Specialized coatings enable VISIBEAD spheres to combine chemically with the binder, improving adhesion, optimizing embedment and maximizing long-term retroreflectivity.
- Potters Industries' VISIGUN® safety marking sphere dispenser is designed for optimal application of VISIBEAD spheres.
- VISIBEAD Spheres are easy to apply with existing equipment.
- Our beads meet and exceed the rigorous heavy metals limitation standards set forth by state and federal standards.

VISIBEAD Facts and Figures

- **Size:** 14–20 mesh (1.4–0.85 mm); a range of sizes offsets the effects of traffic and binder degradation.
- **Compatible binders:** waterborne or solvent-based paint, epoxy, polyester, thermoplastic, PMMA and polyurea.
- **Standards:** Most states specify gradation (size), roundness and coating requirements for highway marking beads. VISIBEAD spheres meet the U.S. Department of Transportation Federal Highway Administration's FP-03 specifications.

VISIBEAD Spheres use proprietary technology to ensure consistent quality, improved durability and unique clarity.



VISIBEAD Spheres are three to four times larger than conventional glass beads, and stand higher above the surface of the line, delineating highway markings clearly and providing superior visibility.

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Potters respects the environment by recycling over one billion pounds of glass each year.

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SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name	**Highway Safety Marking Spheres with Coating** **Standard Highway Safety Marking Spheres with Coating** **Premium Highway Safety Marking Spheres with Coating** **VISIBEAD® Highway Safety Marking Spheres with Coating** **VISIBEAD® Plus II Highway Safety Marking Spheres with Coating** **Premix Highway Safety Marking**
CAS No.	65997-17-3
EINECS No.	2660460

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

Identified use(s)	Road safety markings

1.3 Details of the supplier of the safety data sheet

Company Identification	Potters Industries LLC P. O. Box 841 Valley Forge, PA 19482 USA
Telephone	+1 610-651-4700
E-Mail (competent person)	sds.uk@pqcorp.com

1.4 Emergency telephone number

Emergency Phone No.	Potters Industries LLC +1 610-651-4200 ChemTrec (800) 424-9300

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification	Not classified as dangerous for supply/use.
EC Classification	Not classified as dangerous for supply/use.
Hazards summary	Dust may cause irritation. Spilled material is slippery .

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	%W/W	CAS No.	EINECS No. / REACH Registration	EC Classification and Risk Phrases
Glass oxide; Glass	>99	65997-17-3	2660460	Not applicable.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Eye Contact	Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. If symptoms persist, obtain medical attention.
Skin Contact	Wash affected skin with plenty of water. If symptoms occur obtain medical attention.
Inhalation	In case of accident by inhalation: remove casualty to fresh air and keep at rest. If symptoms develop, obtain medical attention.

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Ingestion	Do not induce vomiting. If symptoms develop, obtain medical attention.
4.2 Most important symptoms and effects, both acute and delayed	Dust may cause irritation. Spilled material is slippery . Dust may cause discomfort and mild irritation.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media	
Suitable Extinguishing Media	As appropriate for surrounding fire.
Unsuitable extinguishing Media	None known.
5.2 Special hazards arising from the substance or mixture	Spilled material can make floors slippery.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	Wear suitable protective clothing. Wear eye/face protection.
6.2 Environmental precautions	Not applicable.
6.3 Methods and materials for containment and cleaning up	Caution - spillages may be slippery. Avoid generation of dust. Sweep or preferably vacuum up and collect in suitable containers for recovery or disposal.
6.4 Reference to other sections	Not applicable.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling	Avoid contact with eyes, skin and clothing. Avoid generation of dust. Wash thoroughly after handling. Wear protective equipment to comply with good occupational hygiene practice. Do not eat, drink or smoke at the work place.
7.2 Conditions for safe storage, including any incompatibilities	Keep container tightly closed and dry.
7.3 Specific end use(s)	Not applicable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

SUBSTANCE.	Occupational Exposure Limits
Glass oxide; Glass	No Occupational Exposure Limit assigned. 15mg/m3 total dust 5mg/m3 respirable (Particulates Not Otherwise Regulated)

8.2 Exposure controls	
8.2.1 Appropriate engineering controls	Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.
8.2.2 Personal Protection	
Respiratory protection	Wear suitable respiratory protective equipment if working in confined spaces with inadequate ventilation or where there is any risk of the exposure limits being exceeded.
Eye/face protection	Safety spectacles
Skin protection	Wear suitable protective clothing and gloves. For example cotton or rubber .

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Glass Powder . White.
Odour	Odourless.
Odour Threshold (ppm)	Not applicable.
pH (Value)	Not applicable.
Freezing Point (°C)	Not applicable.
Melting Point (°C)	Approx 730 C
Boiling Point (°C)	Not applicable.
Flash Point (°C) [Closed cup]	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Non-combustible.
Vapour Pressure (mm Hg)	Not applicable.
Vapour Density (Air=1)	Not applicable.
Solubility (Water)	Insoluble.
Partition Coefficient	Not applicable.
Auto Ignition Point (°C)	Not applicable.
Decomposition Temperature (°C)	Not applicable.
Viscosity (mPa. s)	Not applicable.
Explosive properties	Not applicable.
Oxidising Properties	Not applicable.
9.2 Other information	Not available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Avoid contact with strong acids
10.2 Chemical stability	Stable.
10.3 Possibility of hazardous reactions	Not applicable.
10.4 Conditions to avoid	Not applicable.
10.5 Incompatible materials	None known.
10.6 Hazardous decomposition product(s)	None known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Ingestion	The acute oral toxicity of this product has not been tested. A similar material was nontoxic to rats at 5,000 mg/kg.
Inhalation	No data. May cause irritation to the respiratory system.
Skin Contact	Dust may cause mechanical irritation.
Eye Contact	Dust may cause mechanical irritation.
Sensitisation	Not sensitising.
Carcinogenicity	There are no known reports of carcinogenicity of nonfibrous glass.
Reproductive toxicity	No evidence of reproductive effects.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	No environmental hazards have been reported or known.
12.2 Persistence and degradability	This material is persistent but inert in aquatic systems. It will not bioconcentrate up the food chain.
12.5 Results of PBT and vPvB assessment	Not classified as PBT or vPvB.

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12.6 Other adverse effects Not applicable

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods The waste is considered to be non hazardous. Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

14.2 Proper Shipping Name NOT CLASSED AS DANGEROUS FOR TRANSPORT.

SECTION 15: REGULATORY INFORMATION

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

TSCA Inventory Status: Reported/Included.
AICS Inventory Status: Reported/Included.
DSL/NDSL Inventory Status: Reported/Included.
WHMIS Classification Not classified.
German Water Hazard Classification VwVwS: WGK class 1 (low hazard to water).
HMIS: 0,0,0

SECTION 16: OTHER INFORMATION

This SDS was last reviewed: 08/2014
The following sections contain revisions or new statements: All sections.

EC Classification No. 67/548/EEC	Not classified as dangerous for supply/use.
GHS Classification	Not classified as dangerous for supply/use.

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EPOPLEX

1000 East Park Avenue • Maple Shade, NJ 08052 • 856.667.8399 • FAX: 856.779.2963

LS50
Viscosity vs. Temperature

	EPOPLEX® LS50 - Viscosity (cP)		
Temperature	Hardener	White	Yellow
70˚F/21˚C	17500	7100	8610
75˚F/24˚C	9690	4480	6200
80˚F/27˚C	6990	3060	3890
85˚F/29˚C	5110	2180	2890
90˚F/32˚C	3890	1660	2270
95˚F/35˚C	2730	1300	1650
100˚F/38˚C	2090	925	1250
105˚F/41˚C	1590	755	1010
110˚F/43˚C	1320	590	870
115˚F/46˚C	1050	475	710
120˚F/49˚C	720	395	580
125˚F/52˚C	575	335	500
130˚F/54˚C	435	290	490

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EPOPLEX

LS50

PRODUCT DATA

PRODUCT DESCRIPTION

Epoplex LS50 is a two-component, 100% solids epoxy coating material designed as a rapid setting highway marking coating that provides durability and corrosion and abrasion resistance. Epoplex LS50 is formulated to provide a simple volumetric mixing ratio of two volumes of Component A to one volume of Component B.

USES, APPLICATIONS

Epoplex LS50 may be applied to both cementitious and asphalt highway surfaces as a long-lasting striping material for both edging and center line markings.

PRODUCT ADVANTAGES

- 100% solids chemistry
- Low viscosity suitable for spray application
- Long-term abrasion and corrosion resistance
- Excellent bond strength assures good adhesion to a variety of substrates
- Protection against moisture penetration
- Special formulation chemistry for rapid set at a wide range of temperatures
- High ultraviolet light stability
- High reflective qualities

PACKAGING

Component A: Base Resin and Pigmentation
Component B: Activator/Curing Agent

Both components are available in 55 gallon drums and 250 gallon returnable totes.

STORAGE CONDITIONS

Store both components of Epoplex LS50 in a dry area. Avoid excessive heat and do not freeze. The shelf life is two years in the original, unopened container.

PHYSICAL CHARACTERISTICS

Percent Solids 100%
Epoxy Equivalent Weight . . . . . .300 +/- 50
(ASTM D-1652, Method B)
Total Amine Value . . . . . .475 +/- 50
(ERF-25-68)
Track Free Time @ 77°F/25°C . . . . . .10 min. or less
(ASTM D-711) (with glass beads)
Adhesion . . . . . .> 300 psi
(ASTM D-7234 formerly (100% concrete failure)
ASTM D-4541)
Hardness . . . . . .Min. 80
(ASTM D-2240, Shore D)
Abrasion Resistance . . . . . .< 80 mg weight loss
(ASTM D-4060, formerly ASTM C-501)
Tensile Strength . . . . . .6,000 psi
(ASTM D-638)
Compressive Strength . . . . . .12,000 psi
(ASTM D-695)
Theoretical Coverage . . . . . .122 sq. ft. per gallon @ 15 mils
Mixing Ratio . . . . . .2 Parts A to 1 Part B, by volume
Chromaticity (Color) . . . . . .within coordinates
(ASTM D-6628)
Yellowness Indexing . . . . . .Max. before QUV 8
(ASTM E-313) Max. after QUV 20
Titanium Dioxide (White) 18-25%
(ASTM D-476, Type V) (Composition by weight)
(Exceeds Type I,II,III & IV)
Non-Lead Organic Yellow 5-10%
(Composition by weight)

COLOR

Epoplex LS50 is available in highway white, non-lead yellow, and black. Custom colors are available upon request.

IMPORTANT:
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EPOPLEX

LS50

General Application Specification - Epoxy Pavement Markings

A. EPOXY PAINT MATERIALS

1. Shipment of Materials

The material shall be shipped to the job site in containers that are substantial and shall be plainly marked with the manufacturer's name and address, the color of the material, date of manufacture and batch number.

2. Certification of Compliance

The material manufacturer shall furnish a notarized certification that the material complies with the provisions of this specification. It shall not be inferred that the provisions of a certification of compliance waives state inspection, sampling or testing.

3. Infrared Spectra

A copy of the infrared spectra of each component shall be supplied by the Contractor along with the certification papers.

4. Glass Beads

The Contractor shall furnish certifications which shall include or have attached specific results of tests performed for roundness, refractive index, flow characteristics and gradation. The certifications shall show the quantity and lot number.

B. EPOXY PAINT STRIPING MATERIALS

1. Formulation

The epoxy paint marking material shall consist of a 100% solid, two-part system formulated and designed to provide a simple volumetric mixing ratio of the two components (e.g., two volumes of Part A to one volume of Part B).

2. Composition

The Component A composition shall be within the following limits:

	WHITE	NON-LEAD YELLOW
Pigments		
Titanium Dioxide (ASTM D-476 Type V) (Exceeds Type I,II,III & IV)	18-25%	5-10 %
Organic Yellow		5-10%
Binder		
Epoxy Resin	75-82%	73-77%

3. Epoxide Number

The WPE of the epoxy resin (Compoionent A) shall be 300 +/- 50 as determined by ASTM D-1652 Method B and 250 +/- 50 on a pigment free basis.

4. Amine Number

The amine number of the curing agent (Component B) shall be 475 +/- 50 as determined by ERF-25-68.

5. Toxicity

Upon heating to application temperature, the material shall not exude fumes which are toxic or injurious to persons or property.

6. Viscosity

Formulations of each component shall be such that the viscosity of both components shall coincide (within 10%) at a recommended spray temperature.

7. Track Free Time

The epoxy paint pavement marking material, when mixed in the proper ratio and applied at 15 mils +/- 0.5 mil wet film thickness at 75°F +/- 2°F and with the proper saturation of glass spheres, shall exhibit no tracking time of 10 minutes or less when tested according to ASTM D-711.

8. Curing

The epoxy paint materials shall be capable of fully curing under a constant surface temperature of 40°F or above.

9. Color

The initial color for white and lead-free yellow shall fall within the following color box coordinates before and after performing ASTM G-53.

	x	y	x	y	x	y	x	y
White	.355	.355	.305	.305	.285	.325	.335	.375
Yellow	.560	.440	.490	.510	.420	.440	.460	.400

Note: Daytime Chromaticity, 45/0 (0/45) geometry, CIE Illuminant D65 and 2 degree standard observer.

10. Yellowness Index (ASTM E-313)

- Cure 72 hours after sample preparation
- Take yellow index reading, XYZ C/2°, following 72 hour cure and preceding QUV
- Maximum index before QUV: 8
- Place sample in QUV for 72 hours
- Maximum index after QUV: 20

11. Directional Reflectance (ASTM D-6628, replaces ASTM E-97)

Directional Reflectance after QUV using XYZ Scale D65/2°.

White	Yellow
Minimum: 90	Minimum: 54

12. Adhesion to Concrete

The catalyzed epoxy paint pavement marking materials, when tested according to ASTM D-7234 (formerly ASTM D-4541), shall have such a higher degree of adhesion to the specified concrete (4,000 psi minimum) surface that there shall be a 100% concrete failure in the performance of this test. The prepared specimens shall be conditioned at room temperature (75°F +/- 2°F) for a minimum of 24 hours and a maximum of 72 hours prior to the performance of the indicated test.

13. Hardness

The epoxy paint pavement marking materials, when tested according to ASTM D-2240, shall have a Shore D Hardness greater than 80. Samples shall be allowed to cure at room temperature (75°F +/- 2°F) for a minimum of 24 hours and a maximum of 72 hours prior to performing the indicated test.

14. Abrasion Resistance

The epoxy paint pavement marking material, when tested according to ASTM D-4060 (formerly ASTM C-501) using a Taber Abrader, CS-17 wheels, at 1,000g for 1,000 cycles, shall not have more than 80 mg weight loss. The test shall be run on samples applied at 15 +/- mils to S-16 stainless steel plates, without glass spheres and cured at 75°F +/- 2°F for between 24 and 72 hours.

15. Tensile Strength

When tested according to ASTM D-638, the epoxy paint pavement marking materials shall have an average tensile strength of not less than 6,000 pounds per square inch. The Type IV Specimens shall be pulled at a rate of 1/4 inch per minute by a suitable dynamic testing machine. The samples shall be allowed to cure at room temperature (75°F +/- 2°F) for a minimum of 24 hours and a maximum of 72 hours prior to performing the indicated tests.

16. Compressive Strength

When tested according to ASTM D-695, the catalyzed epoxy paint pavement marking materials shall have an average compressive strength of not less than 12,000 pounds per square inch. The cast sample shall be conditioned at room temperature (75°F +/- 2°F) for a minimum of 72 hours before performing the indicated tests. The rate of compression of these samples shall be no more than 1/4 inch per minute.

C. GLASS BEADS

1. Glass Spheres

Spherical glass beads shall be used as reflective media in LS50. The glass spheres shall be colorless, clean, transparent and free of excessive air bubbles. The surface of the spheres shall not exhibit any scarring or scratching. The refractive index of the glass spheres shall be a minimum of 1.50 as determined by the liquid immersion method at 75°F/24°C. The silica content of the glass spheres shall be a minimum of 60% by weight.

2. Gradation of Glass Spheres

There shall be two gradation types used in the LS50 epoxy pavement marking material. The large glass spheres shall conform to the Type 4 gradation described in the Standard Specification for Construction of Roads and Bridges on Federal Projects FP-96, Section 718.19. The small glass spheres shall conform to the AASHTO M-247 Type 1 Specification.

D. APPLICATION

Equipment

Epoplex shall approve the equipment used for the application of LS50. The equipment shall be capable of spraying both white and yellow epoxy according to Epoplex's recommended proportions and be of sufficient size and stability with adequate hydraulic and air power supplies to produce lines of uniform dimensions. The equipment shall have a high-pressure air blast cleaning system capable of cleaning the pavement immediately prior to applying the markings.

The equipment shall be specifically designed to apply two-component liquid materials through airless static tube or impingement mixing guns in a continuous and/or skip-line pattern. The guns must accommodate plural component material systems with a volumetric ratio of two to one.

The equipment shall be mobile, truck mounted and self-contained. The equipment shall be maneuverable to the extent that straight lines can be followed and normal curves can be made in a true arc. Truck mounted application units shall be equipped with accessories to allow for the application of legends, symbols, crosswalks and other special markings.

The agency engineer and material manufacturer together may approve the use of a portable applicator in lieu of truck mounted accessories for the application of special markings provided such equipment can demonstrate satisfactory application of reflectorized markings in accordance with these specifications.

E. SURFACE PREPARATION

1. Temperature

LS50 epoxy must be applied only when atmospheric and surface temperatures are 40°F/5°C or higher.

2. Moisture

Pavement surfaces must be clean and dry prior to the application of LS50 epoxy.

3. Miscellaneous Debris

The pavement surface must be free of oil, grease, dirt and dust prior to the application of LS50 epoxy. A grinder or shot blaster is recommended for removal of such surface contaminants prior to material application.

4. New Portland Cement Concrete

The curing compounds must be completely removed from Portland cement surfaces prior to the application of LS50 epoxy. High pressure water-blasting, sandblasting and/or shot blasting are the recommended methods for removing curing compounds.

5. New Asphalt

LS50 epoxy can be applied directly to new asphalt surfaces as soon as the asphalt has cooled and can support the weight of application equipment. The asphalt surface must be free of excess asphalt emulsions and oils to ensure proper adhesion of the markings.

6. Chip and Slurry Seal Coated Surfaces

Slurry seal coats must be completely cured prior to the application of LS50 epoxy. Chip seal surfaces must be free of loose aggregate. A reasonable waiting period to allow vehicles to wear off loose aggregate is recommended.

7. Removal of Existing Pavement Markings

Existing pavement markings must be removed prior to the application of LS50 epoxy. The roadway surface should be water-blasted, sandblasted and/or shot blasted until a minimum of 80% of the pavement surface is exposed. Oil based paints and epoxies used as temporary markings must be removed prior to application of LS50 epoxy.

LS50 epoxy may be applied over latex water-based paint applied as a temporary marking, provided these markings were applied at a mil thickness of 10 mils or less. If these water based paint markings were applied over Portland Cement prior to removal of the curing compound, these markings must be removed prior to application of LS50 epoxy.

F. APPLICATION

1. Film Thickness

The material film thickness shall vary depending on the condition and type of pavement surface being marked. The applied film thickness, calculated without drop-on glass spheres, shall conform to the following:

Surface Type LS50 Application Rate (1 inch = 1,000 mils)	
Smooth Asphalt or Concrete Surface	20 ± 2 mils
New Smooth Concrete Surface	20 ± 2 mils
New Grooved Concrete Surface	25 ± 2 mils
New Asphalt Surface (Standard Mix)	20 ± 2 mils
Open Grade Friction Course or Stone Matrix Asphalt (SMA)	25 ± 2 mils
Rough Asphalt or Concrete	22 ± 2 mils
Smooth Asphalt or Concrete After Removal of Existing Markings	22 ± 2 mils
Chip Seal	20 ± 2 mils
Slurry Seal	20 ± 2 mils

Applied markings shall have uniform mil thickness and glass bead distribution across the width of the line. The markings shall have crisp distinct edges and clean cutoff at the end of each line.

2. Drop-On Glass Sphere Application

Type 1 and Type 4 glass spheres, as described in sections C1 and C2 above, shall be applied to the LS50 epoxy in a double drop operation. Type 4 spheres shall be applied first from the bead dispenser directly behind the epoxy application gun followed immediately by the application of Type 1 beads from a second bead dispenser. The application rates of each of the glass spheres shall conform to the following:

3. Protection of Newly Installed Markings

All applied markings shall be protected from traffic and potential tracking while the LS50 epoxy cures. Markings may be saturated with glass spheres to help prevent tracking.

Mils of LS50 Applied	Application Rate of Glass Spheres
20 mils	10 lbs/gallon of Type 1 10 lbs/gallon of Type 4 (Total of 20 lbs per gallon)
22 mils	12 lbs/gallon of Type 1 12 lbs/gallon of Type 4 (Total of 24 lbs per gallon)
25 mils	15 lbs/gallon of Type 1 15 lbs/gallon of Type 4 (Total of 30 lbs per gallon)

IMPORTANT:
Epoplex believes the information contained here to be true and accurate. Information contained here is for evaluation only. Epoplex makes no warranty, expressed or implied, based on this literature. We further reserve the right to modify and change products or literature at any time.

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05//18

EPOPLEX a division of STONHARD 1000 East Park Avenue, Maple Shade, NJ 08052 • 856.667.8399 • FAX 856.779.2963 • Toll Free 800.822.6920

Safety Data Sheet

prepared to UN GHS Revision 3

1. Identification of the Substance/Mixture and the Company/Undertaking

1.1 Product Identifier

9115A0

Revision Date: 02/12/2018

Supercedes Date: 05/07/2015

Product Name: EPOPLEX LS50 LF YELLOW A

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

For use by appropriately trained applicators. Base component of 2 components coating - Industrial use.

1.3 Details of the supplier of the safety data sheet

Manufacturer:

EPOPLEX, A DIVISION OF STONCOR GROUP, INC
1000 EAST PARK AVENUE
MAPLE SHADE, NJ 08052

+1 856 7797500 (US)

Datasheet Produced by: ehs@stonhard.com

1.4 Emergency telephone number:

CHEMTREC 1-800-424-9300 (Inside US)
CHEMTREC +1 703 5273887 (Outside US)

2. Hazard Identification

2.1 Classification of the substance or mixture

Hazardous to the aquatic environment, Chronic, category 2
Eye Irritation, category 2
STOT, single exposure, category 3, RTI
Skin Irritation, category 2
Skin Sensitizer, category 1

2.2 Label elements

Symbol(s) of Product

Signal Word

Warning

Named Chemicals on Label

Trimethylolpropane triacrylate, Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)

HAZARD STATEMENTS

Skin Irritation, category 2	H315	Causes skin irritation.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
Eye Irritation, category 2	H319	Causes serious eye irritation.
STOT, single exposure, category 3, RTI	H335	May cause respiratory irritation.
Hazardous to the aquatic environment, Chronic, category 2	H411	Toxic to aquatic life with long lasting effects.

PRECAUTION PHRASES

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/ face protection.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
P391	Collect spillage.

2.3 Other hazards

No Information

Results of PBT and vPvB assessment:

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

3. Composition/Information On Ingredients

3.2 Mixtures

Hazardous Ingredients

CAS-No.	Chemical Name	%
25068-38-6	Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	50-75
15625-89-5	Trimethylolpropane triacrylate	10-25
13463-67-7	titanium dioxide	2.5-10
21645-51-2	alumina trihydrate	0.1-1.0

CAS-No.	GHS Symbols	GHS Hazard Statements	M-Factors
25068-38-6	GHS07-GHS09	H315-317-319-335-411	0
15625-89-5	GHS07	H315-317-319	0
13463-67-7			0
21645-51-2			0

Additional Information: The text for GHS Hazard Statements shown above (if any) is given in Section 16.

4. First-aid Measures

4.1 Description of First Aid Measures

GENERAL NOTES: When symptoms persist or in all cases of doubt seek medical advice.
AFTER INHALATION: Move to fresh air. Consult a physician after significant exposure.
AFTER SKIN CONTACT: Use a mild soap if available. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
AFTER EYE CONTACT: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.
AFTER INGESTION: Gently wipe or rinse the inside of the mouth with water. Give small amounts of water to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Self protection of the first aider:

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Irritating to skin. May cause sensitization by skin contact. Prolonged or repeated exposure increases the risk. Harmful to aquatic organisms.

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

5. Fire-fighting Measures

5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam

FOR SAFETY REASONS NOT TO BE USED: Alcohol, Alcohol based solutions, any other media not listed above.

5.2 Special hazards arising from the substance or mixture

No Information

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. High volume water jet. Hazardous decomposition products formed under fire conditions. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Contains epoxy constituents. See information supplied by the manufacturer.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment.

6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains. May cause long-term adverse effects in the aquatic environment.

6.3 Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

Please refer to disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

7. Handling and Storage

7.1 Precautions for safe handling

INSTRUCTIONS FOR SAFE HANDLING: Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment.
PROTECTION AND HYGIENE MEASURES: Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

CONDITIONS TO AVOID: Extremes of temperature and direct sunlight.
STORAGE CONDITIONS: Store in original container. Keep locked up or in an area accessible only to qualified or authorised persons. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

7.3 Specific end use(s)

No specific advice for end use available.

8. Exposure Controls/Personal Protection

8.1 Control parameters

Ingredients with Occupational Exposure Limits (US)

Name	CAS-No.	OSHAPEL	ACGIH TLV
Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	25068-38-6		
Trimethylolpropane triacrylate	15625-89-5		
titanium dioxide	13463-67-7	15.0 mg/m3	10.0 mg/m3
alumina trihydrate	21645-51-2	5.0 mg/m3	10.0 mg/m3

FURTHER INFORMATION: Refer to the regulatory exposure limits for the workforce enforced in each country.

8.2 Exposure controls

Personal Protection

RESPIRATORY PROTECTION: Respirator with filter for organic vapor.
EYE PROTECTION: Safety glasses.
HAND PROTECTION: Impervious gloves. Long sleeved clothing. Remove and wash contaminated clothing before re-use.
OTHER PROTECTIVE EQUIPMENT: No Information
ENGINEERING CONTROLS: Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:	Yellow resin
Physical State	LIQUID
Odor	Faint epoxy odor
Odor threshold	Not determined
pH	Non-aqueous
Melting point / freezing point (°C)	Not determined
Boiling point/range (°C)	146 - N.D.
Flash Point, (°F / °C)	>201F / >94C
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Upper/lower flammability or explosive limits	N/A - N/A
Vapour Pressure	Not determined
Vapour density	Not determined
Relative density	Not determined
Solubility in / Miscibility with water	Negligible
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature (°C)	Not determined

Decomposition temperature (°C)	Not determined
Viscosity	Not determined
Explosive properties	Not applicable
Oxidising properties	Not applicable

9.2 Other information

VOC Content g/l:	5
Specific Gravity (g/cm3)	1.287

10. Stability and Reactivity

10.1 Reactivity
No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability
No decomposition if stored and applied as directed. StableStable under normal conditions.

10.3 Possibility of hazardous reactions
Hazardous polymerisation does not occur.

10.4 Conditions to avoid
Extremes of temperature and direct sunlight.

10.5 Incompatible materials
Strong oxidizing agents. Acids and bases.

10.6 Hazardous decomposition products
Thermal decomposition can lead to release of irritating gases and vapours. Alcohols. Exothermic reaction. Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

11. Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity:

Oral LD50:	No information
Inhalation LC50:	No information
Irritation:	No information available.
Corrosivity:	No information available.
Sensitization:	No information available.
Repeated dose toxicity:	No information available.
Carcinogenicity:	No information available.
Mutagenicity:	No information available.
Toxicity for reproduction:	No information available.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
25068-38-6	Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	>2000 mg/kg, rat, oral	>2000 mg/kg, rat	
15625-89-5	Trimethylolpropane triacrylate	5000 mg/kg, oral, rat		
13463-67-7	titanium dioxide	10000 mg/kg, oral (rat)		

Additional Information:

This product is classified as a "Reproductive Toxicity - Category 2" due to containing a substance classified as a reproductive toxin via ingestion / oral exposure route only. Normal product application methods by trained crew members would not present a risk of oral exposure or ingestion. This product may contain Titanium Dioxide, which is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals. This classification is relevant when exposed to titanium dioxide in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities.

12. Ecological Information

12.1 Toxicity:

EC50 48hr (Daphnia): No information

IC50 72hr (Algae): No information

LC50 96hr (fish): No information

12.2 Persistence and degradability: No information

12.3 Bioaccumulative potential: No information

12.4 Mobility in soil: No information

12.5 Results of PBT and vPvB assessment: The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

12.6 Other adverse effects: No information

CAS-No.	Chemical Name	EC50 48hr	IC50 72hr	LC50 96hr
25068-38-6	Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	1.8 mg/l	No information	1.5-7.7 mg/L
15625-89-5	Trimethylolpropane triacrylate	19.9 mg/l	No information	>1-<2.2 mg/l
13463-67-7	titanium dioxide	>100 mg/l (EC50, 48h, Daphnia magna OECD202)ation	No information	>1000 mg/l
21645-51-2	alumina trihydrate	No information	No information	Not available

13. Disposal Considerations

13.1 WASTE TREATMENT METHODS: If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

14.1	**UN number**	UN3082
14.2	**UN proper shipping name**	Environmentally Hazardous Substance, Liquid, N.O.S.
	Technical name	reaction product: bisphenol-a-(epichlorhydrin) epoxy resin
14.3	**Transport hazard class(es)**	9
	Subsidiary shipping hazard	Not applicable
14.4	**Packing group**	III
14.5	**Environmental hazards**	Not applicable
14.6	**Special precautions for user**	For professional use only.
	EmS-No.:	F-A , S-F
14.7	**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code**	Not applicable

15. Regulatory Information

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

U.S. Federal Regulations: As follows -

CERCLA - Sara Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Skin Corrosion or Irritation, Respiratory or Skin Sensitization, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure)

Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the U.S. Superfund Amendment and Reauthorization Act (SARA) of 1986 and 40 CFR part 372:

No Sara 313 components exist in this product.

Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(b) components exist in this product.

U.S. Clean Air Act:

EPA Coating Category:	Traffic Marking Coatings
EPA VOC Content Limit (g/l):	150
Product VOC Content (g/l)	5.0
Thinning Recommendations:	The coating is to be applied without thinning.
Application Recommendations:	For professional use only.

* As per the federal EPA definition for coating categories in 40 CFR 59.401.
** Grams of VOC per liter of coating product as applied (mixture of Part A and Part B) per ASTM D2369 Method E.

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

Chemical Name	CAS-No.
non-hazardous component	18275200000-5085

Pennsylvania Right-To-Know

The following non-hazardous ingredients are present in the product at greater than 3%.

Chemical Name	CAS-No.
non-hazardous component	18275200000-5085

California Proposition 65:

Warning

Warning: The following ingredients present in the product are known to the State of California to cause cancer:

Chemical Name	CAS-No.
titanium dioxide	13463-67-7
quartz (silicon dioxide)	14808-60-7

Warning: The following ingredients present in the product are known to the State of California to cause birth defects, or other reproductive hazards.

No Proposition 65 Reproductive Toxins exist in this product.

International Regulations: As follows -

* Canadian DSL:

All chemical ingredients included on inventory or exempt.

15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

16. Other Information

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.

Reasons for revision

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Composition Information Changed
Substance and/or Product Properties Changed in Section(s):
 09 - Physical and Chemical Properties
 14 - Transportation Information
 15 - Regulatory Information
Revision Statement(s) Changed

This Safety Data Sheet (SDS) has been revised to meet updated national hazard communication
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standards which have adopted the provisions of the UN GHS system. There have been both formatting and content changes based on the GHS classification (if applicable), Please review each section of the SDS for specific changes.

List of References:

This Safety Data Sheet was compiled with data and information from the following sources:

The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark;
European Union Commission Regulation No. 1907/2006 on REACH as amended within Commission Regulation (EU) 2015/830;
European Union (EC) Regulation No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) and subsequent technical progress adaptations (ATP);
EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes".

Acronym & Abbreviation Key:

CLP	Classification, Labeling & Packaging Regulation
EC	European Commission
EU	European Union
US	United States
CAS	Chemical Abstract Service
EINECS	European Inventory of Existing Chemical Substances
REACH	Registration, Evaluation, Authorization of Chemicals Regulation
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
LTEL	Long term exposure limit
STEL	Short term exposure limit
OEL	Occupational exposure limit
ppm	Parts per million
mg/m3	Milligrams per cubic meter
TLV	Threshold Limit Value
ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety & Health Administration
PEL	Permissible Exposure Limits
VOC	Volatile organic compounds
g/l	Grams per liter
mg/kg	Milligrams per kilogram
N/A	Not applicable
LD50	Lethal dose at 50%
LC50	Lethal concentration at 50%
EC50	Half maximal effective concentration
IC50	Half maximal inhibitory concentration
PBT	Persistent bioaccumulative toxic chemical
vPvB	Very persistent and very bioaccumulative
EEC	European Economic Community
ADR	International Transport of Dangerous Goods by Road
RID	International Transport of Dangerous Goods by Rail
UN	United Nations
IMDG	International Maritime Dangerous Goods Code
IATA	International Air Transport Association
MARPOL	International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978
IBC	International Bulk Container
RTI	Respiratory Tract Irritation
NE	Narcotic Effects

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and

it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.

Safety Data Sheet

prepared to UN GHS Revision 3

1. Identification of the Substance/Mixture and the Company/Undertaking

1.1 Product Identifier

9120A0

Revision Date: 02/12/2018

Supercedes Date: 05/07/2015

Product Name: EPOPLEX LS50 WHITE RESIN

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

Base component of 2 components coating - Industrial use. For use by appropriately trained applicators.

1.3 Details of the supplier of the safety data sheet

Manufacturer:

EPOPLEX, A DIVISION OF STONCOR GROUP, INC
1000 EAST PARK AVENUE
MAPLE SHADE, NJ 08052

+1 856 7797500 (US)

Datasheet Produced by: ehs@stonhard.com

1.4 Emergency telephone number:

CHEMTREC 1-800-424-9300 (Inside US)
CHEMTREC +1 703 5273887 (Outside US)

2. Hazard Identification

2.1 Classification of the substance or mixture

Hazardous to the aquatic environment, Chronic, category 2
Eye Irritation, category 2
STOT, single exposure, category 3, RTI
Skin Irritation, category 2
Skin Sensitizer, category 1

2.2 Label elements

Symbol(s) of Product

Signal Word

Warning

Named Chemicals on Label

Trimethylolpropane triacrylate, Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)

HAZARD STATEMENTS

Skin Irritation, category 2	H315	Causes skin irritation.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
Eye Irritation, category 2	H319	Causes serious eye irritation.
STOT, single exposure, category 3, RTI	H335	May cause respiratory irritation.
Hazardous to the aquatic environment, Chronic, category 2	H411	Toxic to aquatic life with long lasting effects.

PRECAUTION PHRASES

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/ face protection.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
P391	Collect spillage.

2.3 Other hazards

No Information

Results of PBT and vPvB assessment:

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

3. Composition/Information On Ingredients

3.2 Mixtures

Hazardous Ingredients

CAS-No.	Chemical Name	%
25068-38-6	Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	50-75
13463-67-7	titanium dioxide	10-25
15625-89-5	Trimethylolpropane triacrylate	10-25
7631-86-9	silicon dioxide (amorphous)	1.0-2.5
21645-51-2	alumina trihydrate	1.0-2.5

CAS-No.	GHS Symbols	GHS Hazard Statements	M-Factors
25068-38-6	GHS07-GHS09	H315-317-319-335-411	0
13463-67-7			0
15625-89-5	GHS07	H315-317-319	0
7631-86-9			0
21645-51-2			0

Additional Information: The text for GHS Hazard Statements shown above (if any) is given in Section 16.

4. First-aid Measures

4.1 Description of First Aid Measures

GENERAL NOTES: When symptoms persist or in all cases of doubt seek medical advice.
AFTER INHALATION: Move to fresh air. Consult a physician after significant exposure.
AFTER SKIN CONTACT: Use a mild soap if available. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
AFTER EYE CONTACT: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.
AFTER INGESTION: Gently wipe or rinse the inside of the mouth with water. Give small amounts of water to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Self protection of the first aider:

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Irritating to skin. May cause sensitization by skin contact. Prolonged or repeated exposure increases the risk. Harmful to aquatic organisms.

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

5. Fire-fighting Measures

5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam, Water Fog

FOR SAFETY REASONS NOT TO BE USED: Alcohol, Alcohol based solutions, any other media not listed above.

5.2 Special hazards arising from the substance or mixture

No Information

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. High volume water jet. Hazardous decomposition products formed under fire conditions. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Contains epoxy constituents. See information supplied by the manufacturer.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment.

6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains. May cause long-term adverse effects in the aquatic environment.

6.3 Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

Please refer to disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

7. Handling and Storage

7.1 Precautions for safe handling

INSTRUCTIONS FOR SAFE HANDLING: Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment.
PROTECTION AND HYGIENE MEASURES: Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

CONDITIONS TO AVOID: Extremes of temperature and direct sunlight.
STORAGE CONDITIONS: Store in original container. Keep locked up or in an area accessible only to qualified or authorised persons. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

7.3 Specific end use(s)

No specific advice for end use available.

8. Exposure Controls/Personal Protection

8.1 Control parameters

Ingredients with Occupational Exposure Limits (US)

Name	CAS-No.	OSHAPEL	ACGIH TLV
Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	25068-38-6		
titanium dioxide	13463-67-7	15.0 mg/m3	10.0 mg/m3
Trimethylolpropane triacrylate	15625-89-5		
silicon dioxide (amorphous)	7631-86-9	0.8 mg/m3	10.0 mg/m3
alumina trihydrate	21645-51-2	5.0 mg/m3	10.0 mg/m3

FURTHER INFORMATION: Refer to the regulatory exposure limits for the workforce enforced in each country.

8.2 Exposure controls

Personal Protection

RESPIRATORY PROTECTION: Respirator with filter for organic vapor.
EYE PROTECTION: Safety glasses.
HAND PROTECTION: Impervious gloves. Long sleeved clothing. Remove and wash contaminated clothing before re-use.
OTHER PROTECTIVE EQUIPMENT: No Information
ENGINEERING CONTROLS: Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:	Not determined
Physical State	Liquid
Odor	FAINT EPOXY ODOR
Odor threshold	Not determined
pH	NON-AQUEOUS
Melting point / freezing point (°C)	Not determined
Boiling point/range (°C)	146 - N.D.
Flash Point, (°F / °C)	>201F / >94C
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Upper/lower flammability or explosive limits	N/A - N/A
Vapour Pressure	NOT DETERMINED
Vapour density	Not determined
Relative density	Not determined
Solubility in / Miscibility with water	NEGLIGIBLE
Partition coefficient: n-octanol/water	Not determined

Auto-ignition temperature (°C)	Not determined
Decomposition temperature (°C)	Not determined
Viscosity	N/A
Explosive properties	Not determined
Oxidising properties	Not determined

9.2 Other information

VOC Content g/l:	0
Specific Gravity (g/cm3)	1.354

10. Stability and Reactivity

10.1 Reactivity
No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability
No decomposition if stored and applied as directed. StableStable under normal conditions.

10.3 Possibility of hazardous reactions
Hazardous polymerisation does not occur.

10.4 Conditions to avoid
Extremes of temperature and direct sunlight.

10.5 Incompatible materials
Strong oxidizing agents. Acids and bases.

10.6 Hazardous decomposition products
Thermal decomposition can lead to release of irritating gases and vapours. Alcohols. Exothermic reaction. Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

11. Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity:

Oral LD50:	No information
Inhalation LC50:	No information
Irritation:	No information available.
Corrosivity:	No information available.
Sensitization:	No information available.
Repeated dose toxicity:	No information available.
Carcinogenicity:	No information available.
Mutagenicity:	No information available.
Toxicity for reproduction:	No information available.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
25068-38-6	Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	>2000 mg/kg, rat, oral	>2000 mg/kg, rat	
13463-67-7	titanium dioxide	10000 mg/kg, oral (rat)		
15625-89-5	Trimethylolpropane triacrylate	5000 mg/kg, oral, rat		
7631-86-9	silicon dioxide (amorphous)	3,160 mg/kg, rat		58.8 mg/l, 4hr, rat

Additional Information:

This product is classified as a "Reproductive Toxicity - Category 2" due to containing a substance classified as a reproductive toxin via ingestion / oral exposure route only. Normal product application methods by trained crew members would not present a risk of oral exposure or ingestion. This product may contain Titanium Dioxide, which is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals. This classification is relevant when exposed to titanium dioxide in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities.

12. Ecological Information

12.1 Toxicity:

EC50 48hr (Daphnia): No information

IC50 72hr (Algae): No information

LC50 96hr (fish): No information

12.2 Persistence and degradability: No information

12.3 Bioaccumulative potential: No information

12.4 Mobility in soil: No information

12.5 Results of PBT and vPvB assessment: The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

12.6 Other adverse effects: No information

CAS-No.	Chemical Name	EC50 48hr	IC50 72hr	LC50 96hr
25068-38-6	Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	1.8 mg/l	No information	1.5-7.7 mg/L
13463-67-7	titanium dioxide	>100 mg/l (EC50, 48h, Daphnia magna OECD202)ation	No information	>1000 mg/l
15625-89-5	Trimethylolpropane triacrylate	19.9 mg/l	No information	>1-<2.2 mg/l
7631-86-9	silicon dioxide (amorphous)	No information	No information	Not available
21645-51-2	alumina trihydrate	No information	No information	Not available

13. Disposal Considerations

13.1 WASTE TREATMENT METHODS: If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

14.1	**UN number**	UN3082
14.2	**UN proper shipping name**	Environmentally Hazardous Substance, Liquid, n.o.s.
	Technical name	reaction product: bisphenol-a-(epichlorhydrin) epoxy resin
14.3	**Transport hazard class(es)**	9
	Subsidiary shipping hazard	Not applicable
14.4	**Packing group**	III
14.5	**Environmental hazards**	Not applicable
14.6	**Special precautions for user**	Not applicable
	EmS-No.:	F-A , S-F
14.7	**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code**	Not applicable

15. Regulatory Information

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

U.S. Federal Regulations: As follows -

CERCLA - Sara Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Skin Corrosion or Irritation, Respiratory or Skin Sensitization, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure)

Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the U.S. Superfund Amendment and Reauthorization Act (SARA) of 1986 and 40 CFR part 372:

No Sara 313 components exist in this product.

Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(b) components exist in this product.

U.S. Clean Air Act:

EPA Coating Category:	TRAFFIC MARKING COATINGS
EPA VOC Content Limit (g/l):	150
Product VOC Content (g/l)	5.0
Thinning Recommendations:	The coating is to be applied without thinning.
Application Recommendations:	For professional use only.

* As per the federal EPA definition for coating categories in 40 CFR 59.401.
** Grams of VOC per liter of coating product as applied (mixture of Part A and Part B) per ASTM D2369 Method E.

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

Chemical Name	CAS-No.
No NJ Right-To-Know components exist in this product.	

Pennsylvania Right-To-Know

The following non-hazardous ingredients are present in the product at greater than 3%.

No PA Right-To-Know components exist in this product.

California Proposition 65:

Warning

Warning: The following ingredients present in the product are known to the State of California to cause cancer:

Chemical Name	CAS-No.
titanium dioxide	13463-67-7

Warning: The following ingredients present in the product are known to the State of California to cause birth defects, or other reproductive hazards.

No Proposition 65 Reproductive Toxins exist in this product.

International Regulations: As follows -

* Canadian DSL:

All chemical ingredients included on inventory or exempt.

15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

16. Other Information

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.

Reasons for revision

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Composition Information Changed
Substance and/or Product Properties Changed in Section(s):
 09 - Physical and Chemical Properties
 14 - Transportation Information
 15 - Regulatory Information
Revision Statement(s) Changed

This Safety Data Sheet (SDS) has been revised to meet updated national hazard communication
standards which have adopted the provisions of the UN GHS system. There have been both formatting
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and content changes based on the GHS classification (if applicable), Please review each section of the SDS for specific changes.

List of References:

This Safety Data Sheet was compiled with data and information from the following sources:

The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark;
European Union Commission Regulation No. 1907/2006 on REACH as amended within Commission Regulation (EU) 2015/830;
European Union (EC) Regulation No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) and subsequent technical progress adaptations (ATP);
EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes".

Acronym & Abbreviation Key:

CLP	Classification, Labeling & Packaging Regulation
EC	European Commission
EU	European Union
US	United States
CAS	Chemical Abstract Service
EINECS	European Inventory of Existing Chemical Substances
REACH	Registration, Evaluation, Authorization of Chemicals Regulation
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
LTEL	Long term exposure limit
STEL	Short term exposure limit
OEL	Occupational exposure limit
ppm	Parts per million
mg/m3	Milligrams per cubic meter
TLV	Threshold Limit Value
ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety & Health Administration
PEL	Permissible Exposure Limits
VOC	Volatile organic compounds
g/l	Grams per liter
mg/kg	Milligrams per kilogram
N/A	Not applicable
LD50	Lethal dose at 50%
LC50	Lethal concentration at 50%
EC50	Half maximal effective concentration
IC50	Half maximal inhibitory concentration
PBT	Persistent bioaccumulative toxic chemical
vPvB	Very persistent and very bioaccumulative
EEC	European Economic Community
ADR	International Transport of Dangerous Goods by Road
RID	International Transport of Dangerous Goods by Rail
UN	United Nations
IMDG	International Maritime Dangerous Goods Code
IATA	International Air Transport Association
MARPOL	International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978
IBC	International Bulk Container
RTI	Respiratory Tract Irritation
NE	Narcotic Effects

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general

guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.

Safety Data Sheet

prepared to UN GHS Revision 3

1. Identification of the Substance/Mixture and the Company/Undertaking

1.1 Product Identifier 207A

Revision Date: 02/12/2018

Supercedes Date: 05/07/2015

Product Name: EPOPLEX SERIES LS50 HARDENER

1.2 Relevant identified uses of the substance or mixture and uses advised against Hardener for 2 components coatings - Industrial use. For use by appropriately trained applicators.

1.3 Details of the supplier of the safety data sheet

Manufacturer:

EPOPLEX, A DIVISION OF STONCOR GROUP, INC
1000 EAST PARK AVENUE
MAPLE SHADE, NJ 08052

+1 856 7797500 (US)

Datasheet Produced by: ehs@stonhard.com

1.4 Emergency telephone number:

CHEMTREC 1-800-424-9300 (Inside US)
CHEMTREC +1 703 5273887 (Outside US)

2. Hazard Identification

2.1 Classification of the substance or mixture

Acute Toxicity, Inhalation, category 1
Hazardous to the aquatic environment, Acute, category 1
Hazardous to the aquatic environment, Chronic, category 1
Reproductive Toxicity, category 2
STOT, single exposure, category 3, RTI
Skin Corrosion, category 1
Skin Sensitizer, category 1

2.2 Label elements

Symbol(s) of Product

Signal Word

Danger

Named Chemicals on Label

4,4'-isopropylidenediphenol, Diethylenetriamine, 4,4' - isopropylidenediphenol oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with diethylenetriamine, 4-nonylphenol, branched

HAZARD STATEMENTS

Acute Toxicity, Oral, category 4	H302	Harmful if swallowed.
Acute Toxicity, Dermal, category 4	H312	Harmful in contact with skin.
Skin Corrosion, category 1	H314-1	Causes severe skin burns and eye damage.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
Acute Toxicity, Inhalation, category 1	H330-1	Fatal if inhaled.
STOT, single exposure, category 3, RTI	H335	May cause respiratory irritation.
Reproductive Toxicity, category 2	H361	Suspected of damaging fertility or the unborn child.
Hazardous to the aquatic environment, Acute, category 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment, Chronic, category 1	H410	Very toxic to aquatic life with long lasting effects.

PRECAUTION PHRASES

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Do no eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/ face protection.
P284	Wear respiratory protection.
P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308+313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
P352	Wash with plenty of soap and water.
P391	Collect spillage.
P403+233	Store in a well-ventilated place. Keep container tightly closed.

2.3 Other hazards

This product contains a component that is toxic by inhalation when aerosolized or sprayed. Please refer to section 11 of the SDS for toxicity information. Review the toxicity against the intended use. If product is not being aerosolized or sprayed, the inhalation toxicity may not be applicable.

This product is classified as a "Acute Toxicity, Inhalation, Category 1" due to containing Diethylenetriamine (CAS # 111-40-0). Numerous Industrial Hygiene air monitoring studies have been conducted by Stonhard to determine actual levels of exposure to Diethylenetriamine during product installations to application personnel. In each case levels of exposure were found to be well below the ACGIH Threshold Limit Value and NIOSH Recommended Exposure Limit of 1 ppm.

Results of PBT and vPvB assessment:

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

3. Composition/Information On Ingredients

3.2 Mixtures

Hazardous Ingredients

CAS-No.	Chemical Name	%
84852-15-3	4-nonylphenol, branched	25-50
111-40-0	Diethylenetriamine	10-25
31326-29-1	4,4' - isopropylidenediphenol oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with diethylenetriamine	10-25
80-05-7	4,4'-isopropylidenediphenol	10-25

CAS-No.	GHS Symbols	GHS Hazard Statements	M-Factors
84852-15-3	GHS05-GHS07-GHS08-GHS09	H302-314-361-400-410	0
111-40-0	GHS05-GHS06	H302-312-314-317-330-335	0
31326-29-1	GHS07	H302-312	0
80-05-7	GHS05-GHS07-GHS08-GHS09	H317-318-335-361-411	0

Additional Information: The text for GHS Hazard Statements shown above (if any) is given in Section 16.

4. First-aid Measures

4.1 Description of First Aid Measures

GENERAL NOTES: When symptoms persist or in all cases of doubt seek medical advice.
AFTER INHALATION: Move to fresh air. Consult a physician after significant exposure.
AFTER SKIN CONTACT: Use a mild soap if available. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
AFTER EYE CONTACT: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses.
AFTER INGESTION: Gently wipe or rinse the inside of the mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Self protection of the first aider:

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Causes severe burns. Harmful in contact with skin and if swallowed. Irritating to eyes and respiratory system.

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

5. Fire-fighting Measures

5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam

FOR SAFETY REASONS NOT TO BE USED: Alcohol, Alcohol based solutions, any other media not listed above.

5.2 Special hazards arising from the substance or mixture
No Information

5.3 Advice for firefighters
In the event of fire, wear self-contained breathing apparatus. High volume water jet. Hazardous decomposition products formed under fire conditions. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation. Use personal protective equipment.

6.2 Environmental precautions
Do not allow material to contaminate ground water system. Prevent product from entering drains.

6.3 Methods and material for containment and cleaning up
Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections
Please refer to disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

7. Handling and Storage

7.1 Precautions for safe handling
INSTRUCTIONS FOR SAFE HANDLING: Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Do not breathe vapours or spray mist.
PROTECTION AND HYGIENE MEASURES: Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities
CONDITIONS TO AVOID: Direct sources of heat.
STORAGE CONDITIONS: Store in original container. Keep locked up or in an area accessible only to qualified or authorised persons. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

7.3 Specific end use(s)
No specific advice for end use available.

8. Exposure Controls/Personal Protection

8.1 Control parameters
Ingredients with Occupational Exposure Limits (US)

Name	CAS-No.	OSHAPEL	ACGIH TLV
4-nonylphenol, branched	84852-15-3		
Diethylenetriamine	111-40-0	1 ppm	1.0 PPM
4,4' - isopropylidenediphenol oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with dietheylenetriamine	31326-29-1		
4,4'-isopropylidenediphenol	80-05-7		

FURTHER INFORMATION: Refer to the regulatory exposure limits for the workforce enforced in each country.

8.2 Exposure controls

Personal Protection

RESPIRATORY PROTECTION: Respirator with filter for organic vapor.
EYE PROTECTION: Safety glasses.
HAND PROTECTION: Impervious gloves. Long sleeved clothing. Remove and wash contaminated clothing before re-use.
OTHER PROTECTIVE EQUIPMENT: No Information
ENGINEERING CONTROLS: Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:	MOBILE LIQUID / AMBER
Physical State	LIQUID
Odor	FAINT ODOR
Odor threshold	Not determined
pH	NO DATA
Melting point / freezing point (°C)	Not determined
Boiling point/range (°C)	N.D. - N.D.
Flash Point, (°F / °C)	>236F / >113C
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Upper/lower flammability or explosive limits	N/A - N/A
Vapour Pressure	2.17 mmHg @ 21C
Vapour density	NO DATA
Relative density	Not determined
Solubility in / Miscibility with water	SLIGHT
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature (°C)	Not determined
Decomposition temperature (°C)	Not determined
Viscosity	NOT DETERMINED
Explosive properties	Not determined
Oxidising properties	Not determined

9.2 Other information

VOC Content g/l:	5
Specific Gravity (g/cm3)	1.019

10. Stability and Reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions
Hazardous polymerisation may occur.

10.4 Conditions to avoid
Direct sources of heat.

10.5 Incompatible materials
Strong oxidizing agents.

10.6 Hazardous decomposition products
Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

11. Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity:

Oral LD50: No information

Inhalation LC50: No information

Irritation: No information available.

Corrosivity: Corrosive to eyes and skin.

Sensitization: No information available.

Repeated dose toxicity: No information available.

Carcinogenicity: No information available.

Mutagenicity: No information available.

Toxicity for reproduction: No information available.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
84852-15-3	4-nonylphenol, branched	580 mg/kg oral rat		
111-40-0	Diethylenetriamine	1080 mg/kg, oral, rat	1090 mg/kg	10 mg/L / 1 hour, inh, rat
31326-29-1	4,4' - isopropylidenediphenol oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with dietheylenetriamine	540 mg/kg, oral (rat)	1494 mg/kg, rabbit	
80-05-7	4,4'-isopropylidenediphenol	3250 mg/kg, oral, rat	3000 mg/kg, oral, rabbit	

Additional Information:
This product is classified as a "Acute Toxicity, Inhalation, Category 1" due to containing Diethylenetriamine (CAS # 111-40-0). Numerous Industrial Hygiene air monitoring studies have been conducted by Stonhard to determine actual levels of exposure to Diethylenetriamine during product installations to application personnel. In each case levels of exposure were found to be well below the ACGIH Threshold Limit Value and NIOSH Recommended Exposure Limit of 1 ppm. This product is classified as a "Reproductive Toxicity - Category 2" due to containing a substance classified as a reproductive toxin via ingestion / oral exposure route only. Normal product application methods by trained crew members would not present a risk of oral exposure or ingestion.

12. Ecological Information

12.1 Toxicity:

EC50 48hr (Daphnia):	No information
IC50 72hr (Algae):	No information
LC50 96hr (fish):	No information

12.2 Persistence and degradability: No information

12.3 Bioaccumulative potential: No information

12.4 Mobility in soil: No information

12.5 Results of PBT and vPvB assessment: The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

12.6 Other adverse effects: No information

CAS-No.	Chemical Name	EC50 48hr	IC50 72hr	LC50 96hr
84852-15-3	4-nonylphenol, branched	.035 mg/L	.0563 mg/L	.1383 mg/l
111-40-0	Diethylenetriamine	780 mg/l	No information	430 mg/l
31326-29-1	4,4' - isopropylidenediphenol oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with dietheylenetriamine	No information	No information	Not available
80-05-7	4,4'-isopropylidenediphenol	10.2 mg/l	No information	205 mg/l

13. Disposal Considerations

13.1 WASTE TREATMENT METHODS: If recycling is not practicable, dispose of in compliance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

14.1	**UN number**	UN3267
14.2	**UN proper shipping name**	CORROSIVE LIQUID, BASIC, ORGANIC, n.o.s.
	Technical name	(CONTAINS 4-NONYLPHENOL, BRANCHED, DIETHYLENETRIAMINE)
14.3	**Transport hazard class(es)**	8
	Subsidiary shipping hazard	Not applicable
14.4	**Packing group**	III
14.5	**Environmental hazards**	Not applicable
14.6	**Special precautions for user**	Not applicable
	EmS-No.:	F-A , S-B
14.7	**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code**	Not applicable

15. Regulatory Information

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

U.S. Federal Regulations: As follows -

CERCLA - Sara Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Acute Toxicity (any route of exposure), Reproductive toxicity, Skin Corrosion or Irritation, Respiratory or Skin Sensitization, Specific target organ toxicity (single or repeated exposure)

Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the U.S. Superfund Amendment and Reauthorization Act (SARA) of 1986 and 40 CFR part 372:

Chemical Name	CAS-No.
4-nonylphenol, branched	84852-15-3

Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(b) components exist in this product.

U.S. Clean Air Act:

EPA Coating Category:	TRAFFIC MARKING COATINGS
EPA VOC Content Limit (g/l):	150
Product VOC Content (g/l)	5.0
Thinning Recommendations:	NONE
Application Recommendations:	FOR PROFESSIONAL USE ONLY.

* As per the federal EPA definition for coating categories in 40 CFR 59.401.
** Grams of VOC per liter of coating product as applied (mixture of Part A and Part B) per ASTM D2369 Method E.

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

No NJ Right-To-Know components exist in this product.

Pennsylvania Right-To-Know

The following non-hazardous ingredients are present in the product at greater than 3%.

No PA Right-To-Know components exist in this product.

California Proposition 65:

Warning: The following ingredients present in the product are known to the State of California to cause cancer:

No Proposition 65 Carcinogens exist in this product.

Warning

Warning: The following ingredients present in the product are known to the State of California to cause birth defects, or other reproductive hazards.

Chemical Name	CAS-No.
4,4'-isopropylidenediphenol	80-05-7

International Regulations: As follows -

*** Canadian DSL:**

All chemical ingredients included on inventory or exempt.

15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

16. Other Information

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Reasons for revision

Substance and/or Product Properties Changed in Section(s):
03 - Composition/Information On Ingredients
08 - Exposure Controls/Personal Protection
11 - Toxicological Information
12 - Ecological Information
15 - Regulatory Information
Substance Chemical Name Changed
Revision Statement(s) Changed

This Safety Data Sheet (SDS) has been revised to meet updated national hazard communication standards which have adopted the provisions of the UN GHS system. There have been both formatting and content changes based on the GHS classification (if applicable), Please review each section of the SDS for specific changes.

List of References:

This Safety Data Sheet was compiled with data and information from the following sources:

The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark;
European Union Commission Regulation No. 1907/2006 on REACH as amended within Commission Regulation (EU) 2015/830;
European Union (EC) Regulation No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) and subsequent technical progress adaptations (ATP);
EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes".

Acronym & Abbreviation Key:

CLP	Classification, Labeling & Packaging Regulation
EC	European Commission
EU	European Union

US	United States
CAS	Chemical Abstract Service
EINECS	European Inventory of Existing Chemical Substances
REACH	Registration, Evaluation, Authorization of Chemicals Regulation
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
LTEL	Long term exposure limit
STEL	Short term exposure limit
OEL	Occupational exposure limit
ppm	Parts per million
mg/m3	Milligrams per cubic meter
TLV	Threshold Limit Value
ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety & Health Administration
PEL	Permissible Exposure Limits
VOC	Volatile organic compounds
g/l	Grams per liter
mg/kg	Milligrams per kilogram
N/A	Not applicable
LD50	Lethal dose at 50%
LC50	Lethal concentration at 50%
EC50	Half maximal effective concentration
IC50	Half maximal inhibitory concentration
PBT	Persistent bioaccumulative toxic chemical
vPvB	Very persistent and very bioaccumulative
EEC	European Economic Community
ADR	International Transport of Dangerous Goods by Road
RID	International Transport of Dangerous Goods by Rail
UN	United Nations
IMDG	International Maritime Dangerous Goods Code
IATA	International Air Transport Association
MARPOL	International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978
IBC	International Bulk Container
RTI	Respiratory Tract Irritation
NE	Narcotic Effects

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.

Safety Marking, Inc.

Item: **Pavement Lines:Pavement Lines:Double Yellow Lines (Measure as a pair of 4" lines)**

Attachments

Sherwin Williams Paint Submittals.pdf

Ennis-Flint Thermo Submittals.pdf

3M Tape Submittals.pdf

Potters Bead Submittal.pdf

HIGHWAY PRODUCTS

07/16
HOTLINE® FAST DRY WATERBORNE PAVEMENT MARKING PAINTS
TM2196 WHITE TM2197 YELLOW

PRODUCT DESCRIPTION:
HOTLINE® Waterbornes, TM2196 White and **TM2197 Lead-Free Yellow** are fast drying waterborne traffic paints made with some of the most advanced resin technology on the market today. These products meet or exceed all the requirements of the following Specifications:

- **Federal Specification TT-P-1952D, E and F Type I/II Specs. for Waterborne Traffic and Airfield Marking Paints**
- **New York DOT Section 640 Reflectorized Pavement Marking Paints**
- **Rhode Island DOT White and Yellow Fast-Drying Waterborne Pavement Marking Paint**, **Specification RIC 9618, T.09.9901 to T.09.9916 (REV September 25,1995),**
- **Connecticut DOT Form 816 Supplemental Specifications (July 2015), Section M.07.21**

The outstanding characteristics of these products include; low VOC's (~100 gr/L), superior early wash-out resistance and more consistent drying times even in high humidity conditions. Both the white and yellow products are formulated with non-lead containing pigments.

USES:
These products are used primarily for long line striping applications on streets and highways. Other possible uses include: auxiliary markings such as stop bars and crosswalks, marking airfields and for striping parking lots.

APPLICATION:
HOTLINE® Fast Dry Waterborne Pavement Marking Paints are designed primarily for application through long-line striping trucks which have been properly equipped to apply waterborne traffic paints. Of particular importance is the need for metal parts to be stainless steel, hoses to have proper chemical resistance to the unique high pH properties of the latex resins being used, and a heating system which provides adequate heat with appropriate controls. Although airless is the recommended method of application, both airless and air atomizing striping equipment can be used.

APPLICATION CONDITIONS:
Surfaces should be clean, dry and free from loose or peeling paint. HOTLINE® Fast Dry Waterborne Pavement Marking Paints perform best when applied at air and surfaces temperatures of 50ºF and rising. Do not apply below 45ºF. Moisture in the road surface can cause premature failure. The presence of concrete sealers or other residue on new concrete surfaces may interfere with adhesion and must be removed.

Most previously painted lines may be repainted without additional surface preparation, provided the old paint is still tightly adhered to the surface. Multiple layers of paint may eventually build and begin to peel or chip. Removal of the existing paint line will be required in these areas.

APPLICATION CONDITIONS (cont.):
New asphalt surfaces, particularly parking lots, should be allowed to age several months before striping with Waterborne Pavement Marking Paint. Waterborne paint does not normally bleed on new asphalt, but shrinkage of the paint film during the curing (drying) process may cause new asphalt to lift or crack at the edges of the paint line. Exceeding the recommended film thickness will increase the possibility of asphalt lifting. Road surfaces are less susceptible to the occurrence of this lifting problem but should still be monitored.

APPLICATION RATES:
HOTLINE® Fast Dry Waterborne Pavement Marking Paints, TM2196 and TM2197 should be applied at 14 - 16 mils wet film thickness. A flat, uniform paint line with and even distribution of paint and glass beads (6 #/gal) should dry in 120 seconds or less. Application rates of more than 16 mils wet film thickness may extend the service life of the product but may also result in extended drying times.

THINNING & CLEANUP:
Thinning of HOTLINE® Fast Dry Waterborne Pavement Marking Paints is not normally required. If thinning is necessary thin only with clean water, not to exceed four ounces per gallon. Any water added will slow the dry time.

Wet paint may be cleaned up with water. Once the paint is dry, solvent will be required to remove the paint film. Most typical paint solvents (e.g. xylene, acetone) may be used for this purpose. Care must be taken to avoid solvent contamination in waterborne paints.

PRECAUTIONS:
FOR INDUSTRIAL USE ONLY. SEE MATERIAL SAFETY DATA SHEETS. READ AND FOLLOW WARNING LABELS ON PACKAGES.
Painted surfaces can become slippery when wet. Traffic paints are not intended for use as floor paints. Do not use on pedestrian walkways or large surfaces such as ramps, floors and stairs which may become slippery when wet.

TYPICAL TEST DATA

TEST	TM2196	TM2197
Wt. Per Gal.	14.1 lbs/gal	13.8lbs/gal
Viscosity	85 KU	85 KU
Total Solids	77.5%	76.9%
Pigment %	61.7%	60.8%
Contrast Ratio @ 5 mils	0.968	0.965
Reflectance	84.0 min.	50.0 min.
Dry to No Pick-up @ 15 mils	10’ max.	10’ max.

All information, recommendations and suggestions appearing in this bulletin concerning the use of our products are based on tests and data believed to be reliable. However it is the users responsibility to determine the suitability for his own use of the products described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by the Sherwin-Williams Company as to the effects of such use or the results obtained, nor does the Sherwin-Williams Company assume any liability arising out of the use ,by others, of the products referred to herein. Nor is the information referred to herein to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations. Nothing herein contained is to be construed as permission or as a recommendation to infringe any patent

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PRODUCT DATA SHEET

ENNIS
TRAFFIC SAFETY SOLUTIONS

WHITE ALKYD EXTRUDE THERMOPLASTIC TRAFFIC MARKING MATERIAL

884490

DESCRIPTION:

Ennis Traffic Safety Solutions' White Alkyd Thermoplastic reflectorized pavement marking material is intended for use on Portland cement or asphalt concrete road surfaces. It is a 100% solid material that must be pre-heated to a temperature of at least 425°F (218°C), and applied in a molten state to a pavement surface at a temperature of at least 400°F (204°C). Roadway surface temperature at the time of application shall not be less than 50°F (10°C) and shall be rising. The road surface shall be absolutely dry with no forecasted rain for the day. Upon cooling to normal pavement temperature, thermoplastic provides a very durable marking material for high traffic areas.

CHARACTERISTICS OF FINISHED THERMOPLASTIC: (typical)

Glass Beads, AASHTO M-247, % by weight	31.0
Binder, % by weight	19.0
Titanium Dioxide, % by weight	10.1
Tests on material after 4 hours heat with stirring at 425°F ±2°F (218°F ±1°C)	
Softening Point, °C	102.5
Tensile Bond Strength, psi	350
Hardness, Shore A2 @ 115°F (46°C)	55
Daylight Reflectance	80.52
Yellowness Index	6.56
Specific Gravity	2.08

DRY TIME

When applied to the pavement, the thermoplastic material shall be sufficiently tack-free to carry traffic in not more than 2 minutes when pavement surface temperature is at 50±3°F (10°C), and not more than 10 minutes when pavement surface temperature is 130±3°F (54°C).

WHEN TO USE PRIMER

Use the thermoplastic manufacturer's recommended primer on all Portland concrete, and on asphalt surfaces that are more than 2 years old, oxidized and/or have aggregate exposed. Check to make sure that the coverage is adequate and allow primer to cure according to manufacturer's instructions before applying thermoplastic.

PACKAGING

Ennis Traffic Safety Solutions' Alkyd Thermoplastic is available in granular form packaged in 50lb. (22.7kg) meltable bags that are compatible with the thermoplastic allowing them to melt and become part of the hot melt mixture at application temperature.

MATERIAL SAFETY DATA SHEET AVAILABLE UPON REQUEST Rev. 12/06/2010

The Product Date offered herein is, to the best of our knowledge, true and accurate, but all recommendations are made without warning, expressed or implied. Because the conditions of use are beyond our control, neither Ennis Traffic Safety Solutions, nor its agents shall be liable for any injury, loss or damage, direct or consequential, arising from the use or the inability to use the product described herein. No person is authorized to make any statement or recommendation not contained in the Product Data, and any such statement or recommendation, if made, shall not bind the Corporation. Further, nothing contained herein shall be construed as a recommendation to use any product in conflict with existing patents, and no license under the claims of any patent is either implied or granted.

Ennis Traffic Safety Solutions
5910 N. Central Expressway, Suite 1050
Dallas, TX 75206
1-800-331-8118

Capitol Region Council of Governments

BidSync

12/13/2018

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PRODUCT DATA SHEET

YELLOW LEADFREE HYDROCARBON EXTRUDE THERMOPLASTIC TRAFFIC MARKING MATERIAL 884961

DESCRIPTION:

Ennis Traffic Safety Solutions' Yellow Leadfree Hydrocarbon Extrude Thermoplastic reflectorized pavement marking material is intended for use on Portland cement or asphalt concrete road surfaces. It is a 100% solid material that must be pre-heated to a temperature of at least 425°F (218°C), and applied in a molten state to a pavement surface at a temperature of at least 400°F (204°C). Roadway surface temperature at the time of application shall not be less than 50°F (10°C) and shall be rising. The road surface shall be absolutely dry with no forecasted rain for the day. Upon cooling to normal pavement temperature, thermoplastic provides a very durable marking material for high traffic areas.

CHARACTERISTICS OF FINISHED THERMOPLASTIC: (typical)

Binder, % by weight	20.1
Glass Beads, AASHTO M-247 % by weight	30.0
Tests on material after 4 hours heat with stirring at 425°F ±2°F (218°F ±1°C)	
Softening Point, °C	102.9
Tensile Bond Strength, psi	280
Hardness, Shore A2 @ 115°F (46°C)	55
Daylight Reflectance	79.51
Specific Gravity	2.03

DRY TIME:

When applied to the pavement, the thermoplastic material shall be sufficiently tack-free to carry traffic in not more than 2 minutes when pavement surface temperature is at 50±3°F (10°C), and not more than 10 minutes when pavement surface temperature is 130±3°F (54°C).

WHEN TO USE PRIMER:

Use the thermoplastic manufacturer's recommended primer on all Portland concrete, and on asphalt surfaces that are more than 2 years old, oxidized and/or have aggregate exposed. Check to make sure that the coverage is adequate and allow primer to cure according to manufacturer's instructions before applying thermoplastic.

PACKAGING:

Ennis Traffic Safety Solutions' Hydrocarbon Thermoplastic is available in granular form packaged in 50lb. (22.7kg) meltable bags that are compatible with the thermoplastic allowing them to melt and become part of the hot melt mixture at application temperature.

MATERIAL SAFETY DATA SHEET AVAILABLE UPON REQUEST Rev. 12/23/10

The Product Data offered herein is, to the best of our knowledge, true and accurate, but all recommendations are made without warning, expressed or implied. Because the conditions of use are beyond our control, neither Ennis Traffic Safety Solutions, nor its agents shall be liable for any injury, loss or damage, direct or consequential, arising from the use or the inability to use the product described herein. No person is authorized to make any statement or recommendation not contained in the Product Data, and any such statement or recommendation, if made, shall not bind the Corporation. Further, nothing contained herein shall be construed as a recommendation to use any product in conflict with existing patents, and no license under the claims of any patent is either implied or granted.

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5910 N. Central Expressway, Suite 1050
Dallas, TX 75206
1-800-331-8118

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ENNIS-FLINT
A Traffic Safety Solutions Company

APPLICATION GUIDELINES - THERMOPLASTIC PAVEMENT MARKINGS

Temperature

Both the pavement surface and ambient air temperature must be at least 50° F and rising prior to striping, although 55 to 60F and rising is preferred for optimum adhesion and bead retention. This should be checked at least hourly when weather conditions cause temperatures to drop during the course of the striping operation. Thermoplastic should never be heated over a maximum of 450° F. During normal use (70-90F surface and air), we recommend thermoplastic to be applied in the 400-425° F range. This range can be moved down when striping on hot surfaces (over 110F) or moved up to 450F maximum when striping on cold surfaces. A simple adhesion test must be done to prove adequate adhesion if using an alternate application range. Note when striping on very hot, sunny days, the thermoplastic will take longer to cool to a no track condition.

Surface preparation

All surfaces must be dry, free of any loose debris and at the proper temperature prior to striping. Even though the surface may appear dry, it is best to check for sub-surface moisture to improve bond and minimize moisture pops. Check by taping a one foot square piece of clear plastic down on the roadway and observe for 30 minutes see if moisture forms. One can also check by pouring some hot thermoplastic onto a piece of tar paper which is on top of the surface to be striped. Wait 5 minutes, and see if moisture was drawn up onto the road surface under the tar paper. If moisture appears by either of these methods, we recommend you do not apply thermoplastic. When in doubt, always check adhesion. Additional prep for the surface indicated below is as follows:

Existing striped asphalt or concrete roadways – Although not advisable, thermoplastic can be applied over most existing paint and thermoplastic striping material. The adhesion will only be as good as that of the existing stripe. The heat of application may cause tapes and multiple coats of old paint to lift off the surface. Older surfaces with exposed or polished aggregate may require hotter material temperatures, mechanical abrasion to roughen the surface and/or primer to allow better bonding to the road surface. Use primer as manufacturer's recommendation or in the 2-3 dry mils range. Traffic should not drive on primer before application of thermoplastic.

New or not previously striped concrete roadways - Concrete should be allowed to cure at least 14 days, and may need to be mechanically abraded to remove any curing compounds, surface spalling or polishing if it proves detrimental to adhesion. Primer as described above may be necessary to improve bond.

New asphalt roadways - Although thermoplastic may be installed sooner (once the mat cools below 100 F), it is recommended that new asphalt surfaces not be striped until all construction is completed (paving, shoulder work, etc.) and the pavement has had several days to age. This allows any oils, roller aides, or other "liquid" surface coatings to be tracked off the surface (thus assuring a better bond, giving a longer lasting line), as well as allows the asphalt to cure and develop cohesive strength. Waiting also helps prevent any of these oils, dirt, etc. from being tracked or deposited onto the thermoplastic and yielding a "dirty" looking stripe. As interim delineation and depending on time lapse between interim installation and application of the thermoplastic, 7-10 wet mils of water borne traffic paint, with beads reduced accordingly, can be used behind the paver. Please note that in cases where alternate mix designs and water emulsions are used for "asphalt", it may be necessary to wait longer or lightly abrade the new asphalt surface prior to thermoplastic installation if the composition of the asphalt causes adhesion problems. Use of primer on new asphalt is not recommended as the primer may cause adhesion problems between the fresh asphalt and thermoplastic. When in doubt, always test adhesion.

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12/13/2018

Safety Data Sheet

ENNIS-FLINT
A Traffic Safety Solutions Company

according to OSHA Hazard Communication 29 CFR Part 1910.1200

according to Regulation (EC) No. 1907/2006 Article 31

Section 1. Identification

Product Code: 884490

Product Name: TM WHT ALK NJ/AA EXTRD

Product Type: Thermoplastic

Recommended Use: Traffic Markings

Supplied by:
Ennis-Flint
A Traffic Safety Solutions Company
115 Todd Court
Thomasville, NC 27360
T: 800.331.8118 (For Technical Inquiries)

Emergency Telephone: Chemtrec 1-800-424-9300

Section 2. Hazard(s) identification

EMERGENCY OVERVIEW: This product contains a component suspected of causing cancer. However, it is in a non-respirable form and inhalation is unlike to occur from exposure. This classification is relevant when exposed to dust or powder form only (e.g. sanding, grinding).

Classification

Symbol(s) of Product

Signal Word
Warning

GHS Named Chemicals On Label
Titanium Dioxide

GHS HAZARD STATEMENTS

Carcinogenicity, category 2	H351	Suspected of causing cancer.

GHS PRECAUTIONARY STATEMENTS

P201	Obtain special instructions before use.
P281	Use personal protective equipment as required.
P308+P313	IF exposed or concerned: Get medical advice/attention.

Section 3. Composition/Information on ingredients

Chemical Name	CAS-No.	Wt. %	GHS Symbols	GHS Statements
Titanium Dioxide	13463-67-7	2.5-10	GHS08	H351

Phosphorous Pentoxide	1314-56-3	0.1-1.0	GHS05-GHS06	H314-330

Chemical Name	CAS-No.	EINECS No.	REACH Reg No.	M-Factors
Titanium Dioxide	13463-67-7	236-675-5	not available	0
Phosphorous Pentoxide	1314-56-3	215-236-1	not available	0

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

Section 4. First-aid measures

FIRST AID - INHALATION: Move to fresh air. Consult a physician if symptoms persist.

FIRST AID - SKIN CONTACT: In case of BURNS, remove patient from heat source. Immediately cool affected skin for as long as possible with cold water. Remove smoldering clothing, including shoes, boots and jewelry unless adhering to skin. Do not remove clothing if adhering to skin. Do not attempt to remove the molten thermoplastic from the skin. Removal could result in severe tissue damage. Cover patient with dry clean sheet. Conduct primary survey. If indicated, transport patient to emergency treatment facility. Wash affected area immediately with soap and plenty of water. Remove contaminated clothing and launder before reuse. Consult a physician if symptoms persist.

FIRST AID - EYE CONTACT: Contact with molten materials requires immediate medical assistance. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician if symptoms persist.

FIRST AID - INGESTION: Do NOT induce vomiting. If conscious, rinse mouth and drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.

Section 5. Fire-fighting measures

UNUSUAL FIRE AND EXPLOSION HAZARDS: None expected.

SPECIAL FIREFIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

EXTINGUISHING MEDIA: Alcohol Foam, Carbon Dioxide, Dry Chemical, Foam, Water Fog

Section 6. Accidental release measures

ENVIRONMENTAL PRECAUTIONS: Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Use personal protective equipment. Ensure adequate ventilation. Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Take up mechanically. Keep in suitable and closed containers for disposal. Avoid dust formation. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry.

Section 7. Handling and storage

HANDLING: Ensure adequate ventilation. Avoid breathing vapor, mists or dust. Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Observe good industrial hygiene practices. Avoid dust formation. Fine dust dispersed in air may ignite. Do not reheat product packaged in light metal containers. The light metal containers will not safely support the movement or transfer of the product in a hot, molten form. Do not heat over 260°C/500°F in a closed container. This product when heated to above 260°C/500°F can lead to flashing. Appropriate protective equipment must be worn when mixing and applying this product. Keep away from heat and sources of ignition. The thermoplastic bag can be hazardous when empty, because it can retain product residue. Therefore do not reuse container for food, clothing, or products for human or animal consumption or where skin contact may occur. Always obey hazard warnings and handle containers as if they were full. The meltable bag is compatible with the thermoplastic allowing them to melt and become part of the hot melt mixture at application temperature.

STORAGE: Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled containers.

Section 8. Exposure controls/personal protection

Ingredients with Occupational Exposure Limits

Chemical Name	ACGIH TLV-TWA	ACGIH-TLV STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Titanium Dioxide	10 mg/m3		15 mg/m3	

Name	Percentage	VME mg/m3	VME ppm	OEL Nota
Titanium Dioxide	2.5-10	10	0	15 mg/m3

Further Advice: MEL = Maximum Exposure Limit OES = Occupational Exposure Standard SUP = Supplier's Recommendation Sk = Skin Sensitizer N.E. = Not Established

Personal Protection

RESPIRATORY PROTECTION: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

SKIN PROTECTION: Protective gloves/clothing. Use of long sleeved shirts is required when handling molten material.

EYE PROTECTION: Safety glasses with side-shields. Use of a faceshield is recommended when handling molten material.

OTHER PROTECTIVE EQUIPMENT: Eyewash stations, safety showers, ventilation systems.

HYGIENIC PRACTICES: When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

Section 9. Physical and chemical properties

Appearance:	white	**Physical State:**	Solid
Odor:	Odorless	**Odor Threshold:**	Not Established
Density, g/cm3:	2.097	**pH:**	NI
Freeze Point, °C:	NI	**Viscosity:**	NI
Solubility in Water:	Not soluble	**Partition Coefficient, n-octanol/ water:**	NI
Decompostion Temp., °C:	NI		
Boiling Point, °C:	N.I.	**Explosive Limits, vol%:**	N.I.
Combustibility:	Does not Support Combustion	**Flash Point, °C:**	>260
Evaporation Rate:	Slower than Diethyl Ether	**Auto-ignition Temp., °C:**	NI
Vapor Density:	Heavier than air	**Vapor Pressure:**	NI

(See "Other information" Section for abbreviation legend)

Section 10. Stability and reactivity

STABILITY: Stable under recommended storage conditions.

CONDITIONS TO AVOID: Dust formation. Dust may form explosive mixture in air. Heat, flames and sparks.

INCOMPATIBILITY: None known based on information supplied.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides. Nitrogen oxides.

HAZARDOUS POLYMERIZATION: Hazardous polymerisation does not occur.

Section 11. Toxicological information

Practical Experiences

EFFECT OF OVEREXPOSURE - INHALATION: Inhalation of dust in high concentration may cause irritation of respiratory system. In molten state, the material does not give off fumes that are toxic or injurious to persons or property. However, excessive inhalation of vapors in molten state can cause nose and throat irritation, may cause nervous system depression characterized by headache, dizziness, nausea, staggering gait, confusion and unconsciousness.

EFFECT OF OVEREXPOSURE - SKIN CONTACT: Direct skin contact may cause irritation. The molten product can cause serious burns.

EFFECT OF OVEREXPOSURE - EYE CONTACT: Direct eye contact may cause irritation. The molten product can cause serious burns.

EFFECT OF OVEREXPOSURE - INGESTION: Ingestion may cause irritation to mucous membranes.

EFFECT OF OVEREXPOSURE - CHRONIC HAZARDS: This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product.

Acute Toxicity Values
The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Name according to EEC	Oral LD50	Dermal LD50	Gas LC50
13463-67-7	Titanium Dioxide	> 10000 mg/kg rat	> 10000 mg/kg rabbit	>20001 ppm

N.I. - No Information

Section 12. Ecological information

ECOLOGICAL INFORMATION: The environmental impact of this product has not been fully investigated.

Further Ecological Information
Contains the following ingredients which are classified as water dangerous according to EEC directive No. 76/464/EEC in percentages > 1%.

CAS-No.	Name according to EEC	Bio. Conc. Factor (BCF)	Octanol-water par. Coeff (KOW)
13463-67-7	Titanium Dioxide	not available	not available

Section 13. Disposal considerations

Product

DISPOSAL METHOD: This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). Dispose of contents/ container in accordance with the local/regional/national/international regulations. Do not re-use empty containers.

European Waste Code: **080201 waste coating powder**

Uncleaned Packaging

European Waste Code: **150110 packaging dangerous residuals**

Section 14. Transport information

SPECIAL TRANSPORT PRECAUTIONS: When in use, this product is elevated temperature liquid, n.o.s. (compound pavement marking), UN3257, Hazard Class 9, Packing Group III.

Road Transport

UN Number:	Not regulated
ADR/RID Class:	Not regulated
Packing Group:	No Information
Shipping Name:	Not regulated
Primary Shipping Hazard:	No Information
Road Tunnel Transport Code:	Not regulated

Sea Transport

UN Number:	Not regulated
IMDG/GGVSee Class:	Not regulated
EmS-No:	Not regulated
Packing Group:	No Information
Shipping Name:	Not regulated
Primary Shipping Hazard:	No Information
Marine Pollutant:	Not A Marine Pollutant
Shipping Hazard(Marine Pollutant):	No Information

Air Transport

UN Number:	Not regulated
ICAO/IATA Class:	Not regulated
Packing Group:	No Information
Shipping Name:	Not regulated
Primary Shipping Hazard:	No Information

Section 15. Regulatory information

U.S. Federal Regulations:

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Acute Health Hazard, Chronic Health Hazard

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

No Sara 313 components exist in this product.

TOXIC SUBSTANCES CONTROL ACT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

Chemical Name	CAS-No.
Titanium Dioxide	13463-67-7
Silicon dioxide, amorphous	7631-86-9
Phosphorous Pentoxide	1314-56-3

U.S. State Regulations:

NEW JERSEY RIGHT-TO-KNOW:

The following materials are non-hazardous, but are among the top five components in this product.

Chemical Name	CAS-No.
Calcium Carbonate	1317-65-3
Silicon Dioxide	99439-28-8
Maleic Modified Rosin Resin	8050-28-0

PENNSYLVANIA RIGHT-TO-KNOW

The following non-hazardous ingredients are present in the product at greater than 3%.

Chemical Name	CAS-No.
Calcium Carbonate	1317-65-3
Silicon Dioxide	99439-28-8
Pentaerythritol Ester of Rosin	8050-26-8
Maleic Modified Rosin Resin	8050-28-0

CALIFORNIA PROPOSITION 65 CARCINOGENS

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

Chemical Name	CAS-No.
Titanium Dioxide	13463-67-7

CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

No Proposition 65 Reproductive Toxins exist in this product.

International Regulations: As follows -

CANADIAN WHMIS:

This SDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

WHMIS Class: D2A, D2B

Denmark

B-Value: 0.000000

France

Storage Conditions: No Information

Professional Illness Table:

CAS Number	Chemical Name	Professional Illness
13463-67-7	Titanium Dioxide	not available

Germany

VbF-Class: No Information

WGK-class: 0

Remarks:
WGK 0 = in general not a water pollutant
WGK 1 = weak water pollutant
WGK 2 = water pollutant
WGK 3 = severe water pollutant

Processing restrictions:*

Incident Regulation:
No Information

Spain

Storage Conditions: No Information

Switzerland

VOC-Value: 0.00

United Kingdom

Storage Conditions: No Information

Section 16. Other information, including date of preparation of the last revision

Revision Date: 3/13/2016 **Supercedes Date:** 3/8/2016

Reason for revision: No Information

Datasheet produced by: Regulatory Department

HMIS Ratings:

Health:	1	Flammability:	1	Reactivity:	0	Personal Protection:	X

NFPA Ratings:

Health:	1	Flammability:	1	Reactivity:	0	Hazards:	N.I.

Volatile Organic Compounds, gr/ltr: 0

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H314	Causes severe skin burns and eye damage.
H330	Fatal if inhaled.
H351	Suspected of causing cancer.

Icons for GHS Pictograms shown in Section 3 describing each ingredient:

GHS05

GHS06

GHS08

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined, N.I. - No Information

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product where instructions and recommendations are not followed. Any use of the product not in conformance with this SDS or in combination with any other product or process is the responsibility of the user.

Safety Data Sheet

ENNIS-FLINT
A Traffic Safety Solutions Company

according to OSHA Hazard Communication 29 CFR Part 1910.1200

according to Regulation (EC) No. 1907/2006 Article 31

Section 1. Identification

Product Code: 884685

Product Name: TM LF YEL ALK MI/AA EXTRD

Product Type: Thermoplastic

Recommended Use: Traffic Markings

Supplied by:
Ennis-Flint
A Traffic Safety Solutions Company
115 Todd Court
Thomasville, NC 27360
T: 800.331.8118 (For Technical Inquiries)

Emergency Telephone: Chemtrec 1-800-424-9300

Section 2. Hazard(s) identification

EMERGENCY OVERVIEW: This product contains a component suspected of causing cancer. However, it is in a non-respirable form and inhalation is unlike to occur from exposure. This classification is relevant when exposed to dust or powder form only (e.g. sanding, grinding).

Classification

Symbol(s) of Product

No GHS Symbols Exist

Signal Word

GHS Named Chemicals On Label
No GHS Named Chemicals exist in this product

Section 3. Composition/Information on ingredients

Chemical Name	CAS-No.	Wt. %	GHS Symbols	GHS Statements
Titanium Dioxide	13463-67-7	0.1-1.0	GHS08	H351

Chemical Name	CAS-No.	EINECS No.	REACH Reg No.	M-Factors
Titanium Dioxide	13463-67-7	236-675-5	not available	0

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

Section 4. First-aid measures

FIRST AID - INHALATION: Move to fresh air. Consult a physician if symptoms persist.

FIRST AID - SKIN CONTACT: In case of BURNS, remove patient from heat source. Immediately cool affected skin for as long as possible with cold water. Remove smoldering clothing, including shoes, boots and jewelry unless adhering to skin. Do not remove clothing if adhering to skin. Do not attempt to remove the molten thermoplastic from the skin. Removal could result in severe tissue damage. Cover patient with dry clean sheet. Conduct primary survey. If indicated, transport patient to emergency treatment facility. Wash affected area immediately with soap and plenty of water. Remove contaminated clothing and launder before reuse. Consult a physician if symptoms persist.

FIRST AID - EYE CONTACT: Contact with molten materials requires immediate medical assistance. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician if symptoms persist.

FIRST AID - INGESTION: Do NOT induce vomiting. If conscious, rinse mouth and drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.

Section 5. Fire-fighting measures

UNUSUAL FIRE AND EXPLOSION HAZARDS: None expected.

SPECIAL FIREFIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

EXTINGUISHING MEDIA: Alcohol Foam, Carbon Dioxide, Dry Chemical, Water Fog

Section 6. Accidental release measures

ENVIRONMENTAL PRECAUTIONS: Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Use personal protective equipment. Ensure adequate ventilation. Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Take up mechanically. Keep in suitable and closed containers for disposal. Avoid dust formation. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry.

Section 7. Handling and storage

HANDLING: Ensure adequate ventilation. Avoid breathing vapor, mists or dust. Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Observe good industrial hygiene practices. Avoid dust formation. Fine dust dispersed in air may ignite. Do not reheat product packaged in light metal containers. The light metal containers will not safely support the movement or transfer of the product in a hot, molten form. Do not heat over 260°C/500°F in a closed container. This product when heated to above 260°C/500°F can lead to flashing. Appropriate protective equipment must be worn when mixing and applying this product. Keep away from heat and sources of ignition. The thermoplastic bag can be hazardous when empty, because it can retain product residue. Therefore do not reuse container for food, clothing, or products for human or animal consumption or where skin contact may occur. Always obey hazard warnings and handle containers as if they were full. The meltable bag is compatible with the thermoplastic allowing them to melt and become part of the hot melt mixture at application temperature.

STORAGE: Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled containers.

Section 8. Exposure controls/personal protection

Ingredients with Occupational Exposure Limits

Chemical Name	ACGIH TLV-TWA	ACGIH-TLV STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Titanium Dioxide	10 mg/m3		15 mg/m3	

Name	Percentage	VME mg/m3	VME ppm	OEL Nota
Titanium Dioxide	< 1.0	10	0	15 mg/m3

Further Advice: MEL = Maximum Exposure Limit OES = Occupational Exposure Standard SUP = Supplier's Recommendation Sk = Skin Sensitizer N.E. = Not Established

Personal Protection

RESPIRATORY PROTECTION: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

SKIN PROTECTION: Protective gloves/clothing. Use of long sleeved shirts is required when handling molten material.

EYE PROTECTION: Safety glasses with side-shields. Use of a faceshield is recommended when handling molten material.

OTHER PROTECTIVE EQUIPMENT: Eyewash stations, safety showers, ventilation systems.

HYGIENIC PRACTICES: When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

Section 9. Physical and chemical properties

Appearance:	yellow	**Physical State:**	Solid
Odor:	Odorless	**Odor Threshold:**	Not Established
Density, g/cm3:	2.050	**pH:**	NI
Freeze Point, °C:	NI	**Viscosity:**	NI
Solubility in Water:	Not soluble	**Partition Coefficient, n-octanol/ water:**	NI
Decompostion Temp., °C:	NI		
Boiling Point, °C:	N.I.	**Explosive Limits, vol%:**	N.I.
Combustibility:	Does not Support Combustion	**Flash Point, °C:**	>260
Evaporation Rate:	Slower than Diethyl Ether	**Auto-ignition Temp., °C:**	NI
Vapor Density:	Heavier than air	**Vapor Pressure:**	NI

(See "Other information" Section for abbreviation legend)

Section 10. Stability and reactivity

STABILITY: Stable under recommended storage conditions.

CONDITIONS TO AVOID: Dust formation. Dust may form explosive mixture in air. Heat, flames and sparks.

INCOMPATIBILITY: None known based on information supplied.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides. Nitrogen oxides.

HAZARDOUS POLYMERIZATION: Hazardous polymerisation does not occur.

Section 11. Toxicological information

Practical Experiences

EFFECT OF OVEREXPOSURE - INHALATION: Inhalation of dust in high concentration may cause irritation of respiratory system. In molten state, the material does not give off fumes that are toxic or injurious to persons or property. However, excessive inhalation of vapors in molten state can cause nose and throat irritation, may cause nervous system depression characterized by headache,

dizziness, nausea, staggering gait, confusion and unconsciousness.

EFFECT OF OVEREXPOSURE - SKIN CONTACT: Direct skin contact may cause irritation. The molten product can cause serious burns.

EFFECT OF OVEREXPOSURE - EYE CONTACT: Direct eye contact may cause irritation. The molten product can cause serious burns.

EFFECT OF OVEREXPOSURE - INGESTION: Ingestion may cause irritation to mucous membranes.

EFFECT OF OVEREXPOSURE - CHRONIC HAZARDS: This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product.

Acute Toxicity Values
The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Name according to EEC	Oral LD50	Dermal LD50	Gas LC50
13463-67-7	Titanium Dioxide	> 10000 mg/kg rat	> 10000 mg/kg rabbit	>20001 ppm

N.I. - No Information

Section 12. Ecological information

ECOLOGICAL INFORMATION: The environmental impact of this product has not been fully investigated.

Further Ecological Information
Contains the following ingredients which are classified as water dangerous according to EEC directive No. 76/464/EEC in percentages > 1%.

CAS-No.	Name according to EEC	Bio. Conc. Factor (BCF)	Octanol-water par. Coeff (KOW)
13463-67-7	Titanium Dioxide	not available	not available

Section 13. Disposal considerations

Product

DISPOSAL METHOD: This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). Dispose of contents/ container in accordance with the local/regional/national/international regulations. Do not re-use empty containers.

European Waste Code: **080201 waste coating powder**

Uncleaned Packaging

European Waste Code: **150110 packaging dangerous residuals**

Section 14. Transport information

SPECIAL TRANSPORT PRECAUTIONS: When in use, this product is elevated temperature liquid, n.o.s. (compound pavement marking), UN3257, Hazard Class 9, Packing Group III.

Road Transport

UN Number:	Not regulated
ADR/RID Class:	Not regulated
Packing Group:	No Information
Shipping Name:	Not regulated
Primary Shipping Hazard:	No Information
Road Tunnel Transport Code:	Not regulated

Sea Transport

UN Number:	Not regulated
IMDG/GGVSee Class:	Not regulated
EmS-No:	Not regulated
Packing Group:	No Information
Shipping Name:	Not regulated
Primary Shipping Hazard:	No Information
Marine Pollutant:	Not A Marine Pollutant
Shipping Hazard(Marine Pollutant):	No Information

Air Transport

UN Number:	Not regulated
ICAO/IATA Class:	Not regulated
Packing Group:	No Information
Shipping Name:	Not regulated
Primary Shipping Hazard:	No Information

Section 15. Regulatory information

U.S. Federal Regulations:

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Acute Health Hazard, Chronic Health Hazard

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

No Sara 313 components exist in this product.

TOXIC SUBSTANCES CONTROL ACT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

Chemical Name	CAS-No.
Titanium Dioxide	13463-67-7
Silicon dioxide, amorphous	7631-86-9

U.S. State Regulations:

NEW JERSEY RIGHT-TO-KNOW:

The following materials are non-hazardous, but are among the top five components in this product.

Chemical Name	CAS-No.
Calcium Carbonate	1317-65-3
Silicon Dioxide	99439-28-8
Maleic Modified Rosin Resin	8050-28-0
Pentaerythritol Ester of Rosin	8050-26-8

PENNSYLVANIA RIGHT-TO-KNOW

The following non-hazardous ingredients are present in the product at greater than 3%.

Chemical Name	CAS-No.
Calcium Carbonate	1317-65-3
Silicon Dioxide	99439-28-8
Maleic Modified Rosin Resin	8050-28-0
Pentaerythritol Ester of Rosin	8050-26-8

CALIFORNIA PROPOSITION 65 CARCINOGENS

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

Chemical Name	CAS-No.
Titanium Dioxide	13463-67-7

CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

No Proposition 65 Reproductive Toxins exist in this product.

International Regulations: As follows -

CANADIAN WHMIS:

This SDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

WHMIS Class: D2A, D2B

Denmark

B-Value: 0.000000

France

Storage Conditions: No Information

Professional Illness Table:

CAS Number	Chemical Name	Professional Illness
13463-67-7	Titanium Dioxide	not available

Germany

VbF-Class: No Information

WGK-class: 0

Remarks:
WGK 0 = in general not a water pollutant
WGK 1 = weak water pollutant
WGK 2 = water pollutant
WGK 3 = severe water pollutant

Processing restrictions:*

Incident Regulation:
No Information

Spain

Storage Conditions: No Information

Switzerland

VOC-Value: 0.00

United Kingdom

Storage Conditions: No Information

Section 16. Other information, including date of preparation of the last revision

Revision Date: 3/8/2016 **Supercedes Date:** 2/24/2016

Reason for revision: Substance and/or Product Properties Changed in Section(s):
01 - Product Information

Datasheet produced by: Regulatory Department

HMIS Ratings:

Health:	1	Flammability:	1	Reactivity:	0	Personal Protection:	X

NFPA Ratings:

Health:	1	Flammability:	1	Reactivity:	0	Hazards:	N.I.

Volatile Organic Compounds, gr/ltr: 0

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H351 Suspected of causing cancer.

Icons for GHS Pictograms shown in Section 3 describing each ingredient:

GHS08

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined, N.I. - No Information

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product where instructions and recommendations are not followed. Any use of the product not in conformance with this SDS or in combination with any other product or process is the responsibility of the user.

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Capitol Region Council of Governments

BidSync

12/13/2018

3M

Stamark™ Pavement Marking Tape Series 270 ES

Product Bulletin 270 ES **May 2011**

Description

3M™ Stamark™ Pavement Marking Tape Series 270 ES is a retroreflective patterned polymer pavement marking that can be used as an inlay marking on new asphalt or as an overlay marking on asphalt and concrete pavement surfaces in good condition.

Series 270 ES tape offers "Extended Season" applications due to an improved pressure sensitive adhesive (PSA) package on the bottom surface.

Series 270 ES does not require 3M™ Stamark™ Surface Preparation Adhesive P-50 or 3M™ Stamark™ Low VOC Surface Preparation Adhesive SPA60 prior to application, if applied during the application season as outlined in the 3M Climate Guide for 3M™ Stamark™ Pavement Marking Tapes.

Series A270 ES: Unlinered. Used for long lines, edge lines, channelizing lines, gore markings, stop bars and crosswalks.

Series L270 ES: Linered. Used to cut symbols and legends.

Series SMS-L270 ES: Linered. Precut symbols and legends.

Properties

A. Product Features

- Durable, conformable to pavement and retroreflective
- Embedded net provides increased tear resistance
- Pressure sensitive adhesive (PSA) on bottom surface
- No surface preparation adhesive required when applied within standard tape application season as by the 3M Climate Guide
- Can be applied early and late season, down to 40°F (4°C) with use of 3M™ Stamark™ Surface Preparation Adhesive P-50 or 3M™ Stamark™ Low VOC Surface Preparation Adhesive SPA60
- Retroreflective layer of glass beads bonded in a highly durable polyurethane topcoat
- Manufactured without the use of heavy metals, lead chromate pigments or other similar, lead containing chemicals
- Nominal thickness of 0.065 in. (1.6 mm) at pattern heights
- White: 270 ES
- Yellow: 271 ES

B. Reflectance

Series 270 ES tape has the following initial minimum retroreflectance values when measured in accordance with ASTM-D4061 and ASTM 4505. The photometric quality to be measured is coefficient of retroreflected luminance (R_L) and shall be expressed as:

English R_L: millicandelas per square foot per footcandle [(mcd • ft^{-2}) • fc^{-1}] or equivalently as:

Metric R_L: millicandelas per square meter per lux [(mcd • m^{-2}) • lx^{-1}]

	White	Yellow
Entrance Angle	88.76°	88.76°
Observation Angle	1.05°	1.05°
Retroreflected Luminance*	300	250

R_L [(mcd • ft^{-2}) • fc^{-1}]

*The quantity of retroreflected luminance (R_L) "relates to the way the effective retroreflective surface is focused on the retina of the human eye and to the visual effect thereby produced. It is recommended for describing the performance of highway signs and striping, or large vehicular markings which are commonly viewed as discernible surface areas." Federal Test Method Standard 370, 3.1.2, Note 6, March 1, 1977.

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BidSync

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C. Color

The preformed markings consist of white or yellow films with pigments selected and blended to conform to standard highway colors.

D. Skid Resistance

The patterned surface of the retroreflective pliant polymer shall provide an initial minimum skid resistance value of 45 BPN when tested according to ASTM E 303 except values will be taken in one direction and at 45° angle from that direction. These two values will then be averaged to find the skid resistance of the patterned surface.

E. Application

All applications should be installed using the instructions in the appropriate section of 3M Information Folder 270 ES. Surface preparation adhesive is not needed when applying the tape during the application season outlined in the 3M Climate Guide for 3M™ Stamark™ Pavement Marking Tapes. The tape can be applied down to 40°F (4°C) ambient temperature outside the dates outlined in the Climate Guide for Stamark pavement marking tapes with the use of 3M™ Stamark™ Surface Preparation Adhesive P-50 or 3M™ Stamark™ Low VOC Surface Preparation Adhesive SPA60. For long line applications, the P-50 or SPA60 surface preparation adhesive should be applied with a 3M™ Adhesive Spray Applicator PS-14. For transverse markings, the surface preparation adhesive should be applied using a solvent resistant 3/8 inch nap paint roller.

Road lanes are typically exposed to different levels of traffic shear exposure. Road lanes that are exposed to a high frequency of high shear turning, especially by trucks and other large vehicles, require use of SPA60 or P50 for application of Stamark pavement marking tapes. The following table summarized the product and surface preparation adhesive application recommendations by shear condition:

Contact 3M Technical Service at 1800-553-1380 for questions.

Shear Level	Product and Adhesive Recommendation
Very High Shear	Stamark Tape Use SPA60
High Shear	Stamark Tape "A" and "L" Series Use SPA60
Pounds per 100 sq ft	Stamark Tape "A" and "L" Series Use P50 or SPA60
Low Shear	Stamark Tape "A" and "L" Series

Within the Climate Guide Recommendations

F. Patchability

Heavy traffic and snow plowing may cause wear and damage. New materials can be installed in these areas with minimal surface preparation by following the manufacturer's recommendations. Remove the damaged material and replace the damaged area by following the instructions in "Overlay Applications" of 3M Information Folder 270 ES.

General Performance Considerations

Stamark pavement marking tapes are highly effective traffic control devices when properly applied according to 3M recommendations provided in product bulletins and information folders.

The durability of Series 270 ES tape will depend on traffic conditions, snow removal practices, application techniques used, and pavement and atmospheric conditions at the time of application. Damage will be caused by heavy trucks, excessive encroachment (crossover) on high ADT roadways, narrow lane width, unpaved shoulders, snow removal and ice control techniques. It is recommended that the customer thoroughly evaluate Stamark tapes under the conditions in the specified location before making large-scale applications. While experience has shown that, properly applied, these materials are highly effective traffic control devices, 3M makes no generalized performance claims.

Storage

Store in a cool, dry area indoors. Use within one year of receipt.

Health and Safety Information

Read all health hazard, precautionary and first-aid statements found in the Material Safety Data Sheet (MSDS) and/or product label of chemicals prior to handling or use. Also refer to the MSDS for information about the volatile organic compound (VOC) content of chemical products. Consult local regulations and authorities for possible restrictions on product VOC content and/or VOC emissions. Electronically, visit us at www.3M.com/us and select MSDS search.

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Literature Reference

For additional information on Stamark tapes, application instructions or application equipment, refer to the following publications:

IF 270 ES	Application Guidelines for 3M™ Stamark™ Tape Series 270 ES
IF 5.2	Information Folder for 3M Highway Tape Applicator - HTA
IF 5.7	Pavement Surface Preparation and Application Procedures for Stamark Pavement Marking Tapes
IF 5.8	Application of 3M Stamark Precut Symbols and Legends
IF 5.17	Instructions for using 3M Stamark Surface Preparation Adhesive P-50 for 3M Stamark Pavement Tapes
IF 5.21	Instructions for using 3M Stamark Low VOC Surface Preparation Adhesive SPA60 for 3M Stamark Pavement Marking Tapes

FOR INFORMATION OR ASSISTANCE CALL:

1-800-553-1380

IN CANADA CALL:

1-800-265-1840

Internet:

www.3M.com/tss

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Traffic Safety Systems Division
3M Center, Building 0235-03-A-09
St. Paul, MN 55144-1000
1-800-553-1380
www.3M.com/tss

3M Canada Company
P.O. Box 5757
London, Ontario N6A 4T1
1-800-3MHELPS

3M México, S.A. de C.V.
Av. Santa Fe No. 55
Col. Santa Fe, Del. Alvaro Obregón
México, D.F. 01210

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Material Safety Data Sheet

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M(TM) STAMARK(TM) PAVEMENT MARKING TAPE SERIES 270 ES (270 ES White and 271 ES Yellow)
MANUFACTURER: 3M
DIVISION: Traffic Safety Systems Division

ADDRESS: 3M Center
St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

Issue Date: 05/12/2006
Supercedes Date: 01/23/2006

Document Group: 20-2697-9

Product Use:
Intended Use: PAVEMENT MARKING TAPE

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SECTION 2: INGREDIENTS

Ingredient	C.A.S. No.	% by Wt
GLASS BEADS	65997-17-3	30 - 60
FILLERS	Unknown	10 - 30
SYNTHETIC RUBBER	Unknown	10 - 30
RESINS	Unknown	10 - 30
REFRACTORY CERAMIC FIBERS	142844-00-6	7 - 13
PIGMENTS (TITANIUM DIOXIDE OR YELLOW PIGMENT OR CARBON BLACK)	Unknown	1 - 10
CERAMIC PARTICLES	Unknown	1 - 5
POLYURETHANE	Unknown	1 - 5
PLASTIC BINDER	Unknown	1 - 5

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Roll of Tape
Odor, Color, Grade: white, yellow or black, minimal odor

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General Physical Form: Solid
Immediate health, physical, and environmental hazards: The environmental properties of this product present a low environmental hazard. Contains a chemical or chemicals which can cause cancer.

3.2 POTENTIAL HEALTH EFFECTS

Eye Contact:
Dust created by cutting, grinding, sanding, or machining may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Skin Contact:
Mechanical Skin irritation: Signs/symptoms may include abrasion, redness, pain, and itching.

Inhalation:
Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Ingestion:
No health effects are expected.

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Carcinogenicity:
Contains a chemical or chemicals which can cause cancer.

CANCER HAZARDS:
Refractory Ceramic Fibers are considered to be a potential cancer hazard from inhalation exposure. Studies, during grinding removal, have shown no respirable ceramic fibers in the breathing zone.

Ingredient	C.A.S. No.	Class Description	Regulation
CERAMIC FIBERS (AIRBORNE PARTICLES OF RESPIRABLE SIZE)	NONE	Group 2B	International Agency for Research on Cancer
CERAMIC FIBERS (AIRBORNE PARTICLES OF RESPIRABLE SIZE)	NONE	Anticipated human carcinogen	National Toxicology Program Carcinogens

3.3 POTENTIAL ENVIRONMENTAL EFFECTS

This substance does not leach metals or other RCRA (Resource Conservation and Recovery Act) listed TCLP (Toxic Characteristic Leaching Procedure) hazardous substances at concentrations that would make the product a hazardous waste.

SECTION 4: FIRST AID MEASURES

4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

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Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Skin Contact: Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

Inhalation: If signs/symptoms develop, remove person to fresh air. If signs/symptoms persist, get medical attention.

If Swallowed: No need for first aid is anticipated.

SECTION 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

Autoignition temperature	*No Data Available*
Flash Point	*Not Applicable*
Flammable Limits - LEL	*Not Applicable*
Flammable Limits - UEL	*Not Applicable*
OSHA Flammability Classification:	Not Applicable

5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide). Ordinary combustible material. Use fire extinguishers with class A extinguishing agents (e.g., water, foam).

5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: No unusual fire or explosion hazards are anticipated.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Not applicable.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

Avoid breathing of dust. This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

7.2 STORAGE

Store under normal warehouse conditions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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8.1 ENGINEERING CONTROLS

Provide ventilation adequate to control dust concentrations below recommended exposure limits and/or control dust. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control dust, fume, or airborne particles. If ventilation is not adequate, use respiratory protection equipment.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

Not applicable.

8.2.2 Skin Protection

Not applicable.

8.2.3 Respiratory Protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection. Avoid breathing of dust.

8.2.4 Prevention of Swallowing

Not applicable.

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8.3 EXPOSURE GUIDELINES

Ingredient	Authority	Type	Limit	Additional Information
CERAMIC FIBERS (AIRBORNE PARTICLES OF RESPIRABLE SIZE)	ACGIH	TWA, as fibers >= 5 um	0.2 fiber/cc	Table A2

SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists
CMRG: Chemical Manufacturer Recommended Guideline
OSHA: Occupational Safety and Health Administration
AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specific Physical Form:	Roll of Tape
Odor, Color, Grade:	white, yellow or black, minimal odor
General Physical Form:	Solid
Autoignition temperature	*No Data Available*
Flash Point	*Not Applicable*
Flammable Limits - LEL	*Not Applicable*
Flammable Limits - UEL	*Not Applicable*
Boiling point	*Not Applicable*
Vapor Density	*Not Applicable*
Vapor Pressure	*Not Applicable*

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Specific Gravity	*Not Applicable*
pH	*Not Applicable*
Melting point	*No Data Available*
Solubility In Water	*Not Applicable*
Evaporation rate	*Not Applicable*
Volatile Organic Compounds	*Not Applicable*
Percent volatile	*Not Applicable*
VOC Less H2O & Exempt Solvents	*Not Applicable*
Viscosity	*Not Applicable*

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid: None known

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

Substance	Condition
Aldehydes	During Combustion
Hydrocarbons	During Combustion
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Hydrogen Chloride	During Combustion
Hydrogen Cyanide	During Combustion
Oxides of Nitrogen	During Combustion

Hazardous Decomposition: Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.

SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

Not applicable.

CHEMICAL FATE INFORMATION

Not applicable.

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SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of waste product in a sanitary landfill. Incinerate in an industrial or commercial facility in the presence of a combustible material.

Since regulations vary, consult applicable regulations or authorities before disposal.

SECTION 14:TRANSPORT INFORMATION

ID Number(s):
75-0001-1607-1, 75-0001-1608-9, 75-0001-1615-4, 75-0001-1683-2, 75-0301-3418-5, 75-0301-3419-3, 75-0301-3420-1, 75-0301-3421-9, 75-0301-3422-7, 75-0301-3423-5, 75-0301-3424-3, 75-0301-3425-0, 75-0301-3426-8, 75-0301-3427-6, 75-0301-3428-4, 75-0301-3471-4, 75-0301-4075-2, 75-0301-4076-0, 75-0301-4077-8, 75-0301-4078-6, 75-0301-4389-7

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

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SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS
Contact 3M for more information.

311/312 Hazard Categories:
Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

STATE REGULATIONS
Contact 3M for more information.

CHEMICAL INVENTORIES
This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory listing requirements.

Contact 3M for more information.

INTERNATIONAL REGULATIONS
Contact 3M for more information.

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This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION

NFPA Hazard Classification

Health: 1 **Flammability:** 1 **Reactivity:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Revision Changes:
Section 14: ID Number(s) was modified.

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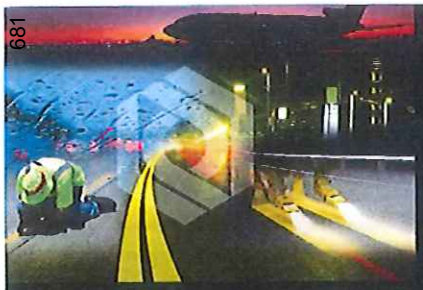


HIGHWAY

STANDARD & PREMIUM SAFETY MARKING SPHERES

Durable, versatile and highly reflective... in all marking systems

STANDARD

Potters Standard Highway Spheres— Cost-effective Highway Delineation

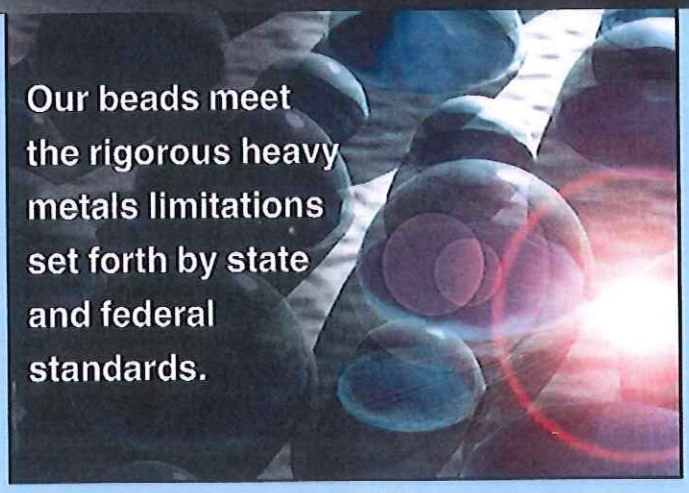
- Retroreflective pavement markings deliver continuous roadway guidance to drivers and have been proven to increase highway safety.
- Our Standard Highway Marking Spheres provide cost-effective nighttime roadway delineation, and can meet any specific standard glass bead specification in North America.
- Our Standard spheres are consistent in quality and composition. Strict quality control produces spheres that optimize retroreflectivity. Proprietary coatings are available to resist agglomeration, ensure flotation for ideal embedment and improve adhesion for greater durability.
- Standard spheres may be applied as a drop-on in all commercial binders, including waterborne paint, epoxy, polyester, thermoplastic, PMMA and polyurea.
- Our beads meet the rigorous heavy metals limitations set forth by state and federal standards.

Standard Spheres: Facts and Figures

- **Size:** 20–80 mesh (850–150 microns); a range of sizes offsets effects of traffic/binder degradation.
- **Compatible binders:** waterborne or solvent-based paint, epoxy, polyester, thermoplastic, PMMA, polyurea
- **Standards:** Spheres can be supplied to meet state specifications for gradation (size), roundness and coatings. Potters Industries is able to supply glass beads which meet any specific standard glass bead specification in North America.

Potters Industries Inc.
an affiliate of PQ Corporation

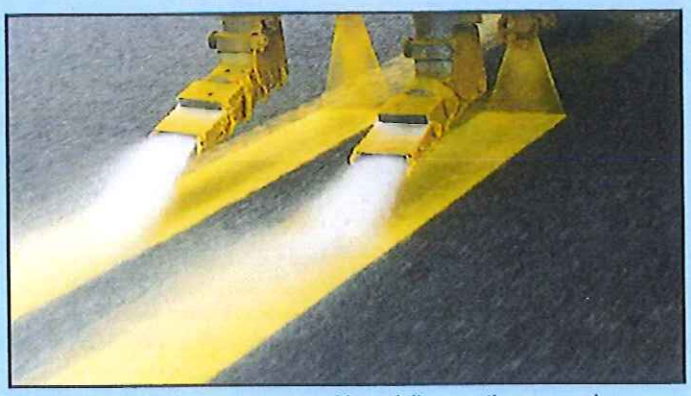
Potters respects the environment by recycling over one billion pounds of glass each year.



Typical Standard Bead Size

U.S. Mesh Size	Millimeters	Mass % Passing
16	1.18	100
20	0.850	95-100
30	0.600	75–95
50	0.300	15–35
100	0.150	0–5

AASHTO M-247, Type 1, Roundness – 70%, 75%, and 80% overall by sieve size.



Potters retroreflective pavement markings deliver continuous roadway guidance to drivers and have been proven to increase highway safety.

See Your Potters Representative or Call (800) 55-BEADS
Visit Us On The Web at www.pottersbeads.com

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VISIBEAD®

HIGHWAY SAFETY MARKING SPHERES

Durable, versatile and highly reflective... in all marking systems

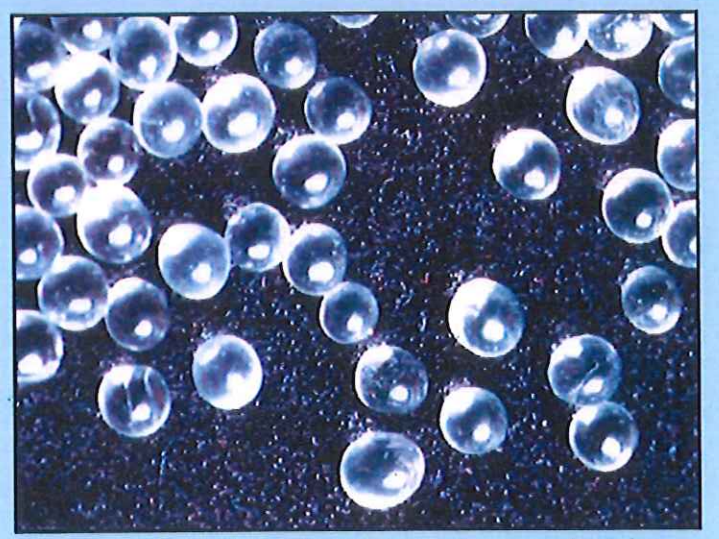
VISIBEAD® Is Clearly Superior For Adverse Weather Conditions

- VISIBEAD Highway Safety Marking Spheres enhance drivers' nighttime visibility, particularly in rain, fog or melting snow, for dramatic improvements in mobility and highway safety.
- Because VISIBEAD spheres are three to four times larger than conventional glass beads, they stand higher above the surface of the line than conventional beads, delineating highway markings clearly and providing superior wet night visibility.
- Potters Industries manufactures VISIBEAD spheres using proprietary technology to ensure consistent quality, improved durability and unique clarity. Specialized coatings enable VISIBEAD spheres to combine chemically with the binder, improving adhesion, optimizing embedment and maximizing long-term retroreflectivity.
- Potters Industries' VISIGUN® safety marking sphere dispenser is designed for optimal application of VISIBEAD spheres.
- VISIBEAD Spheres are easy to apply with existing equipment.
- Our beads meet and exceed the rigorous heavy metals limitation standards set forth by state and federal standards.

VISIBEAD Facts and Figures

- **Size:** 14–20 mesh (1.4–0.85 mm); a range of sizes offsets the effects of traffic and binder degradation.
- **Compatible binders:** waterborne or solvent-based paint, epoxy, polyester, thermoplastic, PMMA and polyurea.
- **Standards:** Most states specify gradation (size), roundness and coating requirements for highway marking beads. VISIBEAD spheres meet the U.S. Department of Transportation Federal Highway Administration's FP-03 specifications.

VISIBEAD Spheres use proprietary technology to ensure consistent quality, improved durability and unique clarity.



VISIBEAD Spheres are three to four times larger than conventional glass beads, and stand higher above the surface of the line, delineating highway markings clearly and providing superior visibility.

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Potters respects the environment by recycling over one billion pounds of glass each year.

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SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name	**Highway Safety Marking Spheres with Coating** **Standard Highway Safety Marking Spheres with Coating** **Premium Highway Safety Marking Spheres with Coating** **VISIBEAD® Highway Safety Marking Spheres with Coating** **VISIBEAD® Plus II Highway Safety Marking Spheres with Coating** **Premix Highway Safety Marking**
CAS No.	65997-17-3
EINECS No.	2660460

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

Identified use(s)	Road safety markings

1.3 Details of the supplier of the safety data sheet

Company Identification	Potters Industries LLC P. O. Box 841 Valley Forge, PA 19482 USA
Telephone	+1 610-651-4700
E-Mail (competent person)	sds.uk@pqcorp.com

1.4 Emergency telephone number

Emergency Phone No.	Potters Industries LLC +1 610-651-4200 ChemTrec (800) 424-9300

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification	Not classified as dangerous for supply/use.
EC Classification	Not classified as dangerous for supply/use.
Hazards summary	Dust may cause irritation. Spilled material is slippery .

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	%W/W	CAS No.	EINECS No. / REACH Registration	EC Classification and Risk Phrases
Glass oxide; Glass	>99	65997-17-3	2660460	Not applicable.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Eye Contact	Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. If symptoms persist, obtain medical attention.
Skin Contact	Wash affected skin with plenty of water. If symptoms occur obtain medical attention.
Inhalation	In case of accident by inhalation: remove casualty to fresh air and keep at rest. If symptoms develop, obtain medical attention.

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Ingestion	Do not induce vomiting. If symptoms develop, obtain medical attention.
4.2 Most important symptoms and effects, both acute and delayed	Dust may cause irritation. Spilled material is slippery . Dust may cause discomfort and mild irritation.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media	
Suitable Extinguishing Media	As appropriate for surrounding fire.
Unsuitable extinguishing Media	None known.
5.2 Special hazards arising from the substance or mixture	Spilled material can make floors slippery.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	Wear suitable protective clothing. Wear eye/face protection.
6.2 Environmental precautions	Not applicable.
6.3 Methods and materials for containment and cleaning up	Caution - spillages may be slippery. Avoid generation of dust. Sweep or preferably vacuum up and collect in suitable containers for recovery or disposal.
6.4 Reference to other sections	Not applicable.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling	Avoid contact with eyes, skin and clothing. Avoid generation of dust. Wash thoroughly after handling. Wear protective equipment to comply with good occupational hygiene practice. Do not eat, drink or smoke at the work place.
7.2 Conditions for safe storage, including any incompatibilities	Keep container tightly closed and dry.
7.3 Specific end use(s)	Not applicable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

SUBSTANCE.	Occupational Exposure Limits
Glass oxide; Glass	No Occupational Exposure Limit assigned. 15mg/m3 total dust 5mg/m3 respirable (Particulates Not Otherwise Regulated)

8.2 Exposure controls	
8.2.1 Appropriate engineering controls	Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.
8.2.2 Personal Protection	
Respiratory protection	Wear suitable respiratory protective equipment if working in confined spaces with inadequate ventilation or where there is any risk of the exposure limits being exceeded.
Eye/face protection	Safety spectacles
Skin protection	Wear suitable protective clothing and gloves. For example cotton or rubber .

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Glass Powder . White.
Odour	Odourless.
Odour Threshold (ppm)	Not applicable.
pH (Value)	Not applicable.
Freezing Point (°C)	Not applicable.
Melting Point (°C)	Approx 730 C
Boiling Point (°C)	Not applicable.
Flash Point (°C) [Closed cup]	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Non-combustible.
Vapour Pressure (mm Hg)	Not applicable.
Vapour Density (Air=1)	Not applicable.
Solubility (Water)	Insoluble.
Partition Coefficient	Not applicable.
Auto Ignition Point (°C)	Not applicable.
Decomposition Temperature (°C)	Not applicable.
Viscosity (mPa. s)	Not applicable.
Explosive properties	Not applicable.
Oxidising Properties	Not applicable.
9.2 Other information	Not available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Avoid contact with strong acids
10.2 Chemical stability	Stable.
10.3 Possibility of hazardous reactions	Not applicable.
10.4 Conditions to avoid	Not applicable.
10.5 Incompatible materials	None known.
10.6 Hazardous decomposition product(s)	None known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Ingestion	The acute oral toxicity of this product has not been tested. A similar material was nontoxic to rats at 5,000 mg/kg.
Inhalation	No data. May cause irritation to the respiratory system.
Skin Contact	Dust may cause mechanical irritation.
Eye Contact	Dust may cause mechanical irritation.
Sensitisation	Not sensitising.
Carcinogenicity	There are no known reports of carcinogenicity of nonfibrous glass.
Reproductive toxicity	No evidence of reproductive effects.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	No environmental hazards have been reported or known.
12.2 Persistence and degradability	This material is persistent but inert in aquatic systems. It will not bioconcentrate up the food chain.
12.5 Results of PBT and vPvB assessment	Not classified as PBT or vPvB.

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12.6 Other adverse effects Not applicable

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods The waste is considered to be non hazardous. Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

14.2 Proper Shipping Name NOT CLASSED AS DANGEROUS FOR TRANSPORT.

SECTION 15: REGULATORY INFORMATION

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

TSCA Inventory Status: Reported/Included.
AICS Inventory Status: Reported/Included.
DSL/NDSL Inventory Status: Reported/Included.
WHMIS Classification Not classified.
German Water Hazard Classification VwVwS: WGK class 1 (low hazard to water).
HMIS: 0,0,0

SECTION 16: OTHER INFORMATION

This SDS was last reviewed: 08/2014
The following sections contain revisions or new statements: All sections.

EC Classification No. 67/548/EEC	Not classified as dangerous for supply/use.
GHS Classification	Not classified as dangerous for supply/use.

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Capitol Region Council of Governments
p. 123
BidSync
12/13/2018

Safety Marking, Inc.

Item: **Pavement Lines:Pavement Lines:Pavement Lines:Double Yellow Lines (Measure as a pair of 4" lines)**

Attachments

Capitol Region Purchasing Council COI 002.pdf

Notes that Apply to Entire Bid.pdf

ACORD®

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 12/3/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: Christine Dodds
TriPoint 21C Arts Center Court Avon CT 06001	PHONE (A/C, No, Ext): (860)618-1104 FAX (A/C, No): (860)499-5352 E-MAIL ADDRESS: cdodds@tripointins.com

INSURED	INSURER(S) AFFORDING COVERAGE	NAIC #
Safety Marking, Inc. 255 Hancock Avenue Bridgeport CT 06605	INSURER A : Zurich American Insurance	16535
	INSURER B : Endurance Assurance Corporation	11551
	INSURER C : American Zurich Insurance Company	40142
	INSURER D : Markel American Insurance Company	28932
	INSURER E : American Guarantee & Liab Ins Co	26247
	INSURER F :	

COVERAGES **CERTIFICATE NUMBER:** 2018-19 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY X PRO-JECT X LOC OTHER:	X	Y	GLO0381556-03	7/1/2018	7/1/2019	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 2,000,000 $ 1,000,000 $ 10,000 $ 2,000,000 $ 4,000,000 $ 4,000,000
A	AUTOMOBILE LIABILITY X ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS HIRED AUTOS NON-OWNED AUTOS	X	Y	BAP0381557-03	7/1/2018	7/1/2019	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ $ $
B	UMBRELLA LIAB X OCCUR X EXCESS LIAB CLAIMS-MADE DED RETENTION $			ELD10004051505	7/1/2018	7/1/2019	EACH OCCURRENCE AGGREGATE	$ 2,000,000 $ 2,000,000
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N: N If yes, describe under DESCRIPTION OF OPERATIONS below	N/A	Y	WC0381555-03	7/1/2018	7/1/2019	X PER STATUTE OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ 1,000,000 $ 1,000,000 $ 1,000,000
D	Excess Liability			MKLM1EUE100221	7/1/2018	7/1/2019	Each Occurrence/Aggregate	$2M/$2M
E	Excess Liability			AEC 7564971-00	7/1/2018	7/1/2019	Each Occurrence/Aggregate	$5M/$5M

FOR BIDDING PURPOSES

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Traffic Guidelines Bid #681
FOR BIDDING PURPOSES ONLY. Traffic Guidelines Bid # 652-A. If awarded, Town of West Hartford, the West Hartford Board of Education, and their respective officers, agents, officials, employees, volunteers, boards and commissions will be included as additional insureds on a primary and non-contributory basis for both ongoing and completed operations when required by written contract per the attached forms. Waiver of subrogation in favor of additional insureds shall apply when required by written contract per the attached forms.

CERTIFICATE HOLDER

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

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

C Dodds/CZHANG

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Additional Insured – Owners, Lessees Or Contractors – Ongoing Operations – Scheduled

Policy No.	Eff. Date of Pol.	Exp. Date of Pol.	Eff. Date of End.	Producer No.	Add'l. Prem	Return Prem.
GLO0381556-03	**7/1/2018**	**7/1/2019**				

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

This endorsement modifies insurance provided under the:

Commercial General Liability Coverage Part

SCHEDULE

Name of Person or Organization:	Location and Description of Ongoing Operations:	Additional Premium:
SEE EXPANDED WORDING ENDT		

FOR BIDDING PURPOSES

A. **Section II – Who Is An Insured** is amended to include as an insured any person or organization shown in the Schedule of this endorsement, but only with respect to liability arising out of your ongoing operations performed for that insured at or from the corresponding location designated and described in the Schedule.

However, if you have entered into a construction contract with an additional insured person or organization shown in the Schedule of this endorsement, the insurance afforded to such additional insured only applies to the extent permitted by law.

B. With respect to the insurance afforded to any additional insured shown in the Schedule of this endorsement, the following additional exclusion applies:

This insurance does not apply to "bodily injury" or "property damage" occurring after:

1. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the site of the covered operations has been completed; or

2. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

All other terms and conditions of this policy remain unchanged.

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Policy Number
GLO 0381556-02

ENDORSEMENT

ZURICH AMERICAN INSURANCE COMPANY

Named Insured SAFETY MARKING, INC.

Effective Date: 7/1/2018
12:01 A.M., Standard Time

Agent Name TRIPOINT INSURANCE INC.

Agent No. 71650-000

ADDITIONAL INSURED - OWNERS, LESSEES OR CONTRACTORS EXPANDED WORDING

UGL1465DCW (12/13) - ADDITIONAL INSURED - OWNERS, LESSEES OR CONTRACTORS - ONGOING OPERATIONS - SCHEDULED

NAME OF PERSON OR ORGANIZATION: ANY PERSON OR ORGANIZATION, OTHER THAN AN ARCHITECT, ENGINEER OR SURVEYOR, WHOM YOU ARE REQUIRED TO ADD AS AN ADDITIONAL INSURED UNDER THIS POLICY UNDER A WRITTEN CONTRACT OR WRITTEN AGREEMENT EXECUTED PRIOR TO LOSS, EXCEPT WHERE SUCH REQUIREMENT IS PROHIBITED BY LAW AND WHERE THAT CONTRACT SPECIFICALLY REQUIRES THE ISO CG2010 10/2001 EDITION FORM OR THE EQUIVALENT OF SAME.

LOCATION: ANY LOCATION OR PROJECT, OTHER THAN A WRAP-UP OR OTHER CONSOLIDATED INSURANCE PROGRAM LOCATION OR PROJECT FOR WHICH INSURANCE IS OTHERWISE SEPARATELY PROVIDED TO YOU BY A WRAP-UP OR OTHER CONSOLIDATED INSURANCE PROGRAM.

FOR BIDDING PURPOSES

Additional Insured – Owners, Lessees Or Contractors – Completed Operations – Scheduled

Policy No.	Eff. Date of Pol.	Exp. Date of Pol.	Eff. Date of End.	Producer No.	Add'l. Prem	Return Prem.
GLO0381556-03	**7/1/2018**	**7/1/2019**				

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

This endorsement modifies insurance provided under the:

Commercial General Liability Coverage Part

SCHEDULE

Name of Person or Organization:	Location and Description of Completed Operations:	Additional Premium:
SEE EXPANDED WORDING ENDT		

FOR BIDDING PURPOSES

Section II – Who Is An Insured is amended to include as an insured any person or organization shown in the Schedule of this endorsement, but only with respect to liability arising out of "your work" at or from the corresponding location designated and described in the Schedule performed for that insured and included in the "products-completed operations hazard".

However, if you have entered into a construction contract with an additional insured person or organization shown in the Schedule of this endorsement, the insurance afforded to such additional insured only applies to the extent permitted by law.

All other terms and conditions of this policy remain unchanged.

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Policy Number
GLO 0381556-02

ENDORSEMENT

ZURICH AMERICAN INSURANCE COMPANY

Named Insured SAFETY MARKING, INC.

Effective Date: 7/1/2018
12:01 A.M., Standard Time

Agent Name TRIPOINT INSURANCE INC.

Agent No. 71650-000

ADDITIONAL INSURED-OWNERS, LESSEES OR CONTRACTORS EXPANDED WORDING

UGL1466DCW (12/13) - ADDITIONAL INSURED-OWNERS, LESSEES OR CONTRACTORS-COMPLETED OPERATIONS-SCHEDULED

NAME OF PERSON OR ORGANIZATION: ANY PERSON OR ORGANIZATION, OTHER THAN AN ARCHITECT, ENGINEER OR SURVEYOR, WHOM YOU ARE REQUIRED TO ADD AS AN ADDITIONAL INSURED UNDER THIS POLICY UNDER A WRITTEN CONTRACT OR WRITTEN AGREEMENT EXECUTED PRIOR TO LOSS, EXCEPT WHERE SUCH REQUIREMENT IS PROHIBITED BY LAW AND WHERE THAT CONTRACT SPECIFICALLY REQUIRES THE ISO CG2037 10/2001 EDITION FORM OR THE EQUIVALENT OF SAME.

LOCATION: ANY LOCATION OR PROJECT, OTHER THAN A WRAP-UP OR OTHER CONSOLIDATED INSURANCE PROGRAM LOCATION OR PROJECT FOR WHICH INSURANCE IS OTHERWISE SEPARATELY PROVIDED TO YOU BY A WRAP-UP OR OTHER CONSOLIDATED INSURANCE PROGRAM

FOR BIDDING PURPOSES

POLICY NUMBER: **COMMERCIAL GENERAL LIABILITY**
CG 20 10 04 13

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – SCHEDULED PERSON OR ORGANIZATION

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s)	Location(s) Of Covered Operations
ANY PERSON OR ORGANIZATION, OTHER THAN AN ARCHITECT, ENGINEER OR SURVEYOR, WHOM YOU ARE REQUIRED TO ADD AS AN ADDITIONAL INSURED UNDER THIS POLICY UNDER A WRITTEN CONTRACT OR WRITTEN AGREEMENT EXECUTED PRIOR TO LOSS, EXCEPT WHERE SUCH REQUIREMENT IS PROHIBITED BY LAW.	ANY LOCATION OR PROJECT, OTHER THAN A WRAP-UP OR OTHER CONSOLIDATED INSURANCE PROGRAM LOCATION OR PROJECT FOR WHICH INSURANCE IS OTHERWISE SEPARATELY PROVIDED TO YOU BY A WRAP-UP OR OTHER CONSOLIDATED INSURANCE PROGRAM.
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

FOR BIDDING PURPOSES

A. **Section II – Who Is An Insured** is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

1. Your acts or omissions; or

2. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations for the additional insured(s) at the location(s) designated above.

However:

1. The insurance afforded to such additional insured only applies to the extent permitted by law; and

2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

B. With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:

This insurance does not apply to "bodily injury" or "property damage" occurring after:

1. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or

2. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

C. With respect to the insurance afforded to these additional insureds, the following is added to **Section III – Limits Of Insurance:**

If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement; or

2. Available under the applicable Limits of Insurance shown in the Declarations;

whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

FOR BIDDING PURPOSES

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GLO 0381556-03

POLICY NUMBER:

COMMERCIAL GENERAL LIABILITY
CG 20 37 04 13

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – COMPLETED OPERATIONS

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s)	Location And Description Of Completed Operations
ANY PERSON OR ORGANIZATION, OTHER THAN AN ARCHITECT, ENGINEER OR SURVEYOR, WHOM YOU ARE REQUIRED TO ADD AS AN ADDITIONAL INSURED UNDER THIS POLICY UNDER A WRITTEN CONTRACT OR WRITTEN AGREEMENT EXECUTED PRIOR TO LOSS, EXCEPT WHERE SUCH REQUIREMENT IS PROHIBITED BY LAW.	ANY LOCATION OR PROJECT, OTHER THAN A WRAP-UP OR OTHER CONSOLIDATED INSURANCE PROGRAM LOCATION OR PROJECT FOR WHICH INSURANCE IS OTHERWISE SEPARATELY PROVIDED TO YOU BY A WRAP-UP OR OTHER CONSOLIDATED INSURANCE PROGRAM.
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

FOR BIDDING PURPOSES

A. **Section II – Who Is An Insured** is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury" or "property damage" caused, in whole or in part, by "your work" at the location designated and described in the Schedule of this endorsement performed for that additional insured and included in the "products-completed operations hazard".

However:

1. The insurance afforded to such additional insured only applies to the extent permitted by law; and
2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

B. With respect to the insurance afforded to these additional insureds, the following is added to **Section III – Limits Of Insurance:**

If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement; or
2. Available under the applicable Limits of Insurance shown in the Declarations;

whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

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COMMERCIAL GENERAL LIABILITY
CG 20 07 04 13

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – ENGINEERS, ARCHITECTS OR SURVEYORS

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

A. **Section II – Who Is An Insured** is amended to include as an additional insured any architect, engineer, or surveyor engaged by you but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by your acts or omissions or the acts or omissions of those acting on your behalf:

1. In connection with your premises; or
2. In the performance of your ongoing operations.

However:

1. The insurance afforded to such additional insured only applies to the extent permitted by law; and
2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

B. With respect to the insurance afforded to these additional insureds, the following additional exclusion applies:

This insurance does not apply to "bodily injury", "property damage" or "personal and advertising injury" arising out of the rendering of or the failure to render any professional services by or for you, including:

1. The preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or
2. Supervisory, inspection, architectural or engineering activities.

This exclusion applies even if the claims against any insured allege negligence or other wrongdoing in the supervision, hiring, employment, training or monitoring of others by that insured, if the "occurrence" which caused the "bodily injury" or "property damage", or the offense which caused the "personal and advertising injury", involved the rendering of or the failure to render any professional services by or for you.

C. With respect to the insurance afforded to these additional insureds, the following is added to **Section III – Limits Of Insurance:**

If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement; or
2. Available under the applicable Limits of Insurance shown in the Declarations;

whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

FOR BIDDING PURPOSES

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POLICY NUMBER: GLO 0381556-03

COMMERCIAL GENERAL LIABILITY
CG 20 32 04 13

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – ENGINEERS, ARCHITECTS OR SURVEYORS NOT ENGAGED BY THE NAMED INSURED

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Engineers, Architects Or Surveyors Not Engaged By The Named Insured:
ANY ENGINEERS, ARCHITECTS OR SURVEYORS WHILE NOT ENGAGED BY YOU, TO WHOM OR TO WHICH YOU ARE REQUIRED TO PROVIDE ADDITIONAL INSURED STATUS IN A WRITTEN CONTRACT OR WRITTEN AGREEMENT EXECUTED PRIOR TO THE LOSS EXCEPT WHERE SUCH CONTRACT OR AGREEMENT IS PROHIBITED BY LAW.
FOR BIDDING PURPOSES
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

A. **Section II – Who Is An Insured** is amended to include as an additional insured the architects, engineers or surveyors shown in the Schedule, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

1. Your acts or omissions; or

2. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations performed by you or on your behalf.

Such architects, engineers or surveyors, while not engaged by you, are contractually required to be added as an additional insured to your policy.

However, the insurance afforded to such additional insured:

1. Only applies to the extent permitted by law; and

2. Will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

B. With respect to the insurance afforded to these additional insureds, the following additional exclusion applies:

This insurance does not apply to "bodily injury", "property damage" or "personal and advertising injury" arising out of the rendering of or the failure to render any professional services, including:

1. The preparing, approving, or failing to prepare or approve, maps, drawings, opinions, reports, surveys, change orders, designs or specifications; or

2. Supervisory, inspection or engineering services.

This exclusion applies even if the claims against any insured allege negligence or other wrongdoing in the supervision, hiring, employment, training or monitoring of others by that insured, if the "occurrence" which caused the "bodily injury" or "property damage", or the offense which caused the "personal and advertising injury", involved the rendering of or the failure to render any professional services.

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C. With respect to the insurance afforded to these additional insureds, the following is added to **Section III – Limits Of Insurance:**

The most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement; or

2. Available under the applicable Limits of Insurance shown in the Declarations;

whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

FOR BIDDING PURPOSES

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GLO 0381556-03

POLICY NUMBER:

COMMERCIAL GENERAL LIABILITY
CG 25 03 05 09

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

DESIGNATED CONSTRUCTION PROJECT(S) GENERAL AGGREGATE LIMIT

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Designated Construction Project(s):
A GENERAL AGGREGATE LIMIT APPLIES TO EACH CONSTRUCTION PROJECT WHERE THE NAMED INSURED IS PERFORMING OPERATIONS; HOWEVER, A GENERAL AGGREGATE LIMIT DOES NOT APPLY TO ANY CONSTRUCTION PROJECT WHERE THE NAMED INSURED IS PERFORMING OPERATIONS THAT ARE INSURED UNDER A WRAP UP OR ANY OTHER CONSOLIDATED OR SIMILAR INSURANCE PROGRAM.
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

FOR BIDDING PURPOSES

A. For all sums which the insured becomes legally obligated to pay as damages caused by "occurrences" under Section **I** – Coverage **A,** and for all medical expenses caused by accidents under Section **I** – Coverage **C,** which can be attributed only to ongoing operations at a single designated construction project shown in the Schedule above:

1. A separate Designated Construction Project General Aggregate Limit applies to each designated construction project, and that limit is equal to the amount of the General Aggregate Limit shown in the Declarations.
2. The Designated Construction Project General Aggregate Limit is the most we will pay for the sum of all damages under Coverage **A,** except damages because of "bodily injury" or "property damage" included in the "products-completed operations hazard", and for medical expenses under Coverage **C** regardless of the number of:
   a. Insureds;
   b. Claims made or "suits" brought; or
   c. Persons or organizations making claims or bringing "suits".
3. Any payments made under Coverage **A** for damages or under Coverage **C** for medical expenses shall reduce the Designated Construction Project General Aggregate Limit for that designated construction project. Such payments shall not reduce the General Aggregate Limit shown in the Declarations nor shall they reduce any other Designated Construction Project General Aggregate Limit for any other designated construction project shown in the Schedule above.
4. The limits shown in the Declarations for Each Occurrence, Damage To Premises Rented To You and Medical Expense continue to apply. However, instead of being subject to the General Aggregate Limit shown in the Declarations, such limits will be subject to the applicable Designated Construction Project General Aggregate Limit.

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B. For all sums which the insured becomes legally obligated to pay as damages caused by "occurrences" under Section **I** – Coverage **A,** and for all medical expenses caused by accidents under Section **I** – Coverage **C,** which cannot be attributed only to ongoing operations at a single designated construction project shown in the Schedule above:

1. Any payments made under Coverage **A** for damages or under Coverage **C** for medical expenses shall reduce the amount available under the General Aggregate Limit or the Products-completed Operations Aggregate Limit, whichever is applicable; and
2. Such payments shall not reduce any Designated Construction Project General Aggregate Limit.

C. When coverage for liability arising out of the "products-completed operations hazard" is provided, any payments for damages because of "bodily injury" or "property damage" included in the "products-completed operations hazard" will reduce the Products-completed Operations Aggregate Limit, and not reduce the General Aggregate Limit nor the Designated Construction Project General Aggregate Limit.

D. If the applicable designated construction project has been abandoned, delayed, or abandoned and then restarted, or if the authorized contracting parties deviate from plans, blueprints, designs, specifications or timetables, the project will still be deemed to be the same construction project.

E. The provisions of Section **III** – Limits Of Insurance not otherwise modified by this endorsement shall continue to apply as stipulated.

FOR BIDDING PURPOSES

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Additional Insured – Automatic – Owners, Lessees Or Contractors

Policy No.	Eff. Date of Pol.	Exp. Date of Pol.	Eff. Date of End.	Producer No.	Add'l. Prem	Return Prem.
GLO 0381556-03	7/1/2018	7/1/2019		71650000	INCL	

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

Named Insured: SAFETY MARKING, INC.

Address (including ZIP Code):

255 HANCOCK AVE.

BRIDGEPORT, CT 06605

This endorsement modifies insurance provided under the:

Commercial General Liability Coverage Part

A. Section **II – Who Is An Insured** is amended to include as an additional insured any person or organization whom you are required to add as an additional insured on this policy under a written contract or written agreement. Such person or organization is an additional insured only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

FOR BIDDING PURPOSES

1. Your acts or omissions; or

2. The acts or omissions of those acting on your behalf,

in the performance of your ongoing operations or "your work" as included in the "products-completed operations hazard", which is the subject of the written contract or written agreement.

However, the insurance afforded to such additional insured:

1. Only applies to the extent permitted by law; and

2. Will not be broader than that which you are required by the written contract or written agreement to provide for such additional insured.

B. With respect to the insurance afforded to these additional insureds, the following additional exclusion applies:

This insurance does not apply to:

"Bodily injury", "property damage" or "personal and advertising injury" arising out of the rendering of, or failure to render, any professional architectural, engineering or surveying services including:

a. The preparing, approving or failing to prepare or approve maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or

b. Supervisory, inspection, architectural or engineering activities.

This exclusion applies even if the claims against any insured allege negligence or other wrongdoing in the supervision, hiring, employment, training or monitoring of others by that insured, if the "occurrence" which caused the "bodily injury" or "property damage", or the offense which caused the "personal and advertising injury", involved the rendering of or the failure to render any professional architectural, engineering or surveying services.

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C. The following is added to Paragraph **2.** Duties In The Event Of Occurrence, Offense, Claim Or Suit of Section **IV – Commercial General Liability Conditions**:

The additional insured must see to it that:

1. We are notified as soon as practicable of an "occurrence" or offense that may result in a claim;

2. We receive written notice of a claim or "suit" as soon as practicable; and

3. A request for defense and indemnity of the claim or "suit" will promptly be brought against any policy issued by another insurer under which the additional insured may be an insured in any capacity. This provision does not apply to insurance on which the additional insured is a Named Insured if the written contract or written agreement requires that this coverage be primary and non-contributory.

D. For the purposes of the coverage provided by this endorsement:

1. The following is added to the Other Insurance Condition of Section **IV – Commercial General Liability Conditions**:

Primary and Noncontributory insurance

This insurance is primary to and will not seek contribution from any other insurance available to an additional insured provided that:

a. The additional insured is a Named Insured under such other insurance; and

b. You are required by written contract or written agreement that this insurance be primary and not seek contribution from any other insurance available to the additional insured.

2. The following paragraph is added to Paragraph **4.b.** of the Other Insurance Condition of Section **IV – Commercial General Liability Conditions**:

This insurance is excess over:

Any of the other insurance, whether primary, excess, contingent or on any other basis, available to an additional insured, in which the additional insured on our policy is also covered as an additional insured on another policy providing coverage for the same "occurrence", offense, claim or "suit". This provision does not apply to any policy in which the additional insured is a Named Insured on such other policy and where our policy is required by a written contract or written agreement to provide coverage to the additional insured on a primary and non-contributory basis.

FOR BIDDING PURPOSES

E. This endorsement does not apply to an additional insured which has been added to this policy by an endorsement showing the additional insured in a Schedule of additional insureds, and which endorsement applies specifically to that identified additional insured.

F. With respect to the insurance afforded to the additional insureds under this endorsement, the following is added to Section **III – Limits Of Insurance**:

The most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the written contract or written agreement referenced in Paragraph **A.** of this endorsement; or

2. Available under the applicable Limits of Insurance shown in the Declarations,

whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

All other terms and conditions of this policy remain unchanged.

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Other Insurance Amendment – Primary And Non-Contributory

Policy No.	Eff. Date of Pol.	Exp. Date of Pol.	Eff. Date of End.	Producer No.	Add'l. Prem	Return Prem.
GLO 0381556-03	7/1/2018	7/1/2019		71650000	**INCL**	

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

Named Insured:

Address (including ZIP Code):

This endorsement modifies insurance provided under the:

Commercial General Liability Coverage Part

1. The following paragraph is added to the Other Insurance Condition of Section **IV – Commercial General Liability Conditions**:

   This insurance is primary insurance to and will not seek contribution from any other insurance available to an additional insured under this policy provided that:

   a. The additional insured is a Named Insured under such other insurance; and

   b. You are required by a written contract or written agreement that this insurance would be primary and would not seek contribution from any any other insurance available to the additional insured.

2. The following paragraph is added to Paragraph **4.b.** of the Other Insurance Condition of Section **IV – Commercial General Liability Conditions**:

   This insurance is excess over:

   Any of the other insurance, whether primary, excess, contingent or on any other basis, available to an additional insured, in which the additional insured on our policy is also covered as an additional insured on another policy providing coverage for the same "occurrence", offense, claim or "suit". This provision does not apply to any policy in which the additional insured is a Named Insured on such other policy and where our policy is required by written contract or written agreement to provide coverage to the additional insured on a primary and non-contributory basis.

All other terms and conditions of this policy remain unchanged.

FOR BIDDING PURPOSES

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b. Available under the applicable Limits of Insurance shown in the Declarations,

whichever is less.

This Paragraph **F.** shall not increase the applicable Limits of Insurance shown in the Declarations.

G. Damage to Premises Rented or Occupied by You

1. The last paragraph under Paragraph **2. Exclusions** of Section **I – Coverage A – Bodily Injury And Property Damage Liability** is replaced by the following:

Exclusions **c.** through **n.** do not apply to damage by "specific perils" to premises while rented to you or temporarily occupied by you with permission of the owner. A separate Damage To Premises Rented To You Limit of Insurance applies to this coverage as described in Section **III** – Limits Of Insurance.

2. Paragraph **6.** of Section **III – Limits Of Insurance** is replaced by the following:

6. Subject to Paragraph **5.** above, the Damage To Premises Rented To You Limit is the most we will pay under Coverage **A** for damages because of "property damage" to any one premises while rented to you, or in the case of damage by one or more "specific perils" to any one premises, while rented to you or temporarily occupied by you with permission of the owner.

H. Broadened Contractual Liability

The "insured contract" definition under the **Definitions** Section is replaced by the following:

"Insured contract" means:

a. A contract for a lease of premises. However, that portion of the contract for a lease of premises that indemnifies any person or organization for damage by "specific perils" to premises while rented to you or temporarily occupied by you with permission of the owner is not an "insured contract";

b. A sidetrack agreement;

c. Any easement or license agreement;

d. An obligation, as required by ordinance, to indemnify a municipality, except in connection with work for a municipality;

FOR BIDDING PURPOSES

e. An elevator maintenance agreement;

f. That part of any other contract or agreement pertaining to your business (including an indemnification of a municipality in connection with work performed for a municipality) under which you assume the tort liability of another party to pay for "bodily injury", "property damage", or "personal and advertising injury" arising out of the offenses of false arrest, detention or imprisonment, to a third person or organization. Tort liability means a liability that would be imposed by law in the absence of any contract or agreement.

Paragraph **f.** does not include that part of any contract or agreement:

(1) That indemnifies an architect, engineer or surveyor for injury or damage arising out of:

(a) Preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or

(b) Giving directions or instructions, or failing to give them, if that is the primary cause of the injury or damage; or

(2) Under which the insured, if an architect, engineer or surveyor, assumes liability for an injury or damage arising out of the insured's rendering or failure to render professional services, including those listed in Paragraph **(1)** above and supervisory, inspection, architectural or engineering activities.

I. Definition – Specific Perils

The following definition is added to the **Definitions** Section:

"Specific perils" means:

a. Fire;

b. Lightning;

c. Explosion;

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(iv) If the loss arises out of the maintenance or use of aircraft, "autos" or watercraft to the extent not subject to Exclusion **g.** of Section **I** – Coverage **A** – Bodily Injury And Property Damage Liability; or

(v) That is property insurance (including any deductible or self insurance portion thereof) purchased by you to cover damage to:

Equipment you borrow from others; or

Property loaned to you or personal property in the care, custody or control of the insured arising out of the use of an elevator at premises you own, rent or occupy.

(b) Any other primary insurance (including any deductible or self insurance portion thereof) available to the insured covering liability for damages arising out of the premises, operations, products, work or services for which the insured has been granted additional insured status either by policy provision or attachment of any endorsement. Other primary insurance includes any type of self insurance or other mechanism by which an insured arranges for funding of its legal liabilities.

(c) Any of the other insurance, whether primary, excess, contingent or on any other basis, available to an additional insured, in which the additional insured on our policy is also covered as an additional insured on another policy providing coverage for the same "occurrence", claim or "suit". This provision does not apply to any policy in which the additional insured is a Named Insured on such other policy and where our policy is required by written contract or written agreement to provide coverage to the additional insured on a primary and non-contributory basis.

W. Unintentional Failure to Disclose All Hazards

Paragraph **6. Representations** of Section **IV – Commercial General Liability Conditions** is replaced by the following:

6. Representations

By accepting this policy, you agree:

a. The statements in the Declarations are accurate and complete;

b. Those statements are based upon representations you made to us; and

c. We have issued this policy in reliance upon your representations.

FOR BIDDING PURPOSES

Coverage will continue to apply if you unintentionally:

a. Fail to disclose all hazards existing at the inception of this policy; or

b. Make an error, omission or improper description of premises or other statement of information stated in this policy.

You must notify us as soon as possible after the discovery of any hazards or any other information that was not provided to us prior to inception of this Coverage Part.

X. Waiver of Right of Subrogation

Paragraph **8. Transfer Of Rights Of Recovery Against Others To Us** of Section **IV** – **Commercial General Liability Conditions** is replaced by the following:

8. Transfer Of Rights Of Recovery Against Others To Us

a. If the insured has rights to recover all or part of any payment we have made under this Coverage Part, those rights are transferred to us. The insured must do nothing after loss to impair them. At our request, the insured will bring "suit" or transfer those rights to us and help us enforce them.

b. If the insured waives its right to recover payments for injury or damage from another person or organization in a written contract executed prior to a loss, we waive any right of recovery we may have against such person or organization because of any payment we have made under this Coverage Part. The written contract will be considered executed when the insured's performance begins, or when it is signed, whichever happens first. This waiver of rights shall not be construed to be a waiver with respect to any other operations in which the insured has no contractual interest.

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Blanket Notification to Others of Cancellation or Non-Renewal

Policy No.	Eff. Date of Pol.	Exp. Date of Pol.	Eff. Date of End.	Producer No.	Add'l. Prem	Return Prem.
GLO 0381556-03	7/1/2018	7/1/2019 -		71650000	**INCL**	

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

This endorsement modifies insurance provided under the:

Commercial General Liability Coverage Part

A. If we cancel or non-renew this Coverage Part by written notice to the first Named Insured, we will mail or deliver notification that such Coverage Part has been cancelled or non-renewed to each person or organization shown in a list provided to us by the first Named Insured if you are required by written contact or written agreement to provide such notification. However, such notification will not be mailed or delivered if a conditional notice of renewal has been sent to the first Named Insured. Such list:

1. Must be provided to us prior to cancellation or non-renewal;

2. Must contain the names and addresses of only the persons or organizations requiring notification that such Coverage Part has been cancelled or non-renewed; and

FOR BIDDING PURPOSES

3. Must be in an electronic format that is acceptable to us.

B. Our notification as described in Paragraph **A.** of this endorsement will be based on the most recent list in our records as of the date the notice of cancellation or non-renewal is mailed or delivered to the first Named Insured. We will mail or deliver such notification to each person or organization shown in the list:

1. Within seven days of the effective date of the notice of cancellation, if we cancel for non-payment of premium; or

2. At least 30 days prior to the effective date of:

a. Cancellation, if cancelled for any reason other than nonpayment of premium; or

b. Non-renewal, but not including conditional notice of renewal.

C. Our mailing or delivery of notification described in Paragraphs **A.** and **B.** of this endorsement is intended as a courtesy only. Our failure to provide such mailing or delivery will not:

1. Extend the Coverage Part cancellation or non-renewal date;

2. Negate the cancellation or non-renewal; or

3. Provide any additional insurance that would not have been provided in the absence of this endorsement.

D. We are not responsible for the accuracy, integrity, timeliness and validity of information contained in the list provided to us as described in Paragraphs **A.** and **B.** of this endorsement.

All other terms and conditions of this policy remain unchanged.

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COMMERCIAL GENERAL LIABILITY
CG 24 14 04 13

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

WAIVER OF GOVERNMENTAL IMMUNITY

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART
OWNERS AND CONTRACTORS PROTECTIVE LIABILITY COVERAGE PART
RAILROAD PROTECTIVE LIABILITY COVERAGE PART

We will waive, both in the adjustment of claims and in the defense of "suits" against the insured, any governmental immunity of the insured, unless the insured requests in writing that we not do so.

Waiver of immunity as a defense will not subject us to liability for any portion of a claim or judgment in excess of the applicable limit of insurance.

FOR BIDDING PURPOSES

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Coverage Extension Endorsement

ZURICH

Policy No.	Eff. Date of Pol.	Exp. Date of Pol.	Eff. Date of End.	Producer No.	Add'l. Prem	Return Prem.
BAP0381557-03	**7/1/2018**	**7/1/2019**				

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

This endorsement modifies insurance provided under the:

Business Auto Coverage Form
Motor Carrier Coverage Form

A. Amended Who Is An Insured

1. The following is added to the **Who Is An Insured** Provision in **Section II – Covered Autos Liability Coverage**:

The following are also "insureds":

a. Any "employee" of yours is an "insured" while using a covered "auto" you don't own, hire or borrow for acts performed within the scope of employment by you. Any "employee" of yours is also an "insured" while operating an "auto" hired or rented under a contract or agreement in an "employee's" name, with your permission, while performing duties related to the conduct of your business.

FOR BIDDING PURPOSES

b. Anyone volunteering services to you is an "insured" while using a covered "auto" you don't own, hire or borrow to transport your clients or other persons in activities necessary to your business.

c. Anyone else who furnishes an "auto" referenced in Paragraphs **A.1.a.** and **A.1.b.** in this endorsement.

d. Where and to the extent permitted by law, any person(s) or organization(s) where required by written contract or written agreement with you executed prior to any "accident", including those person(s) or organization(s) directing your work pursuant to such written contract or written agreement with you, provided the "accident" arises out of operations governed by such contract or agreement and only up to the limits required in the written contract or written agreement, or the Limits of Insurance shown in the Declarations, whichever is less.

2. The following is added to the **Other Insurance** Condition in the Business Auto Coverage Form and the **Other Insurance – Primary and Excess Insurance Provisions Condition** in the Motor Carrier Coverage Form:

Coverage for any person(s) or organization(s), where required by written contract or written agreement with you executed prior to any "accident", will apply on a primary and non-contributory basis and any insurance maintained by the additional "insured" will apply on an excess basis. However, in no event will this coverage extend beyond the terms and conditions of the Coverage Form.

B. Amendment – Supplementary Payments

Paragraphs **a.(2)** and **a.(4)** of the **Coverage Extensions** Provision in **Section II – Covered Autos Liability Coverage** are replaced by the following:

(2) Up to $5,000 for the cost of bail bonds (including bonds for related traffic law violations) required because of an "accident" we cover. We do not have to furnish these bonds.

(4) All reasonable expenses incurred by the "insured" at our request, including actual loss of earnings up to $500 a day because of time off from work.

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agent, servant or employee of the "insured" to notify us of any "accident", claim, "suit" or "loss" shall not invalidate the insurance afforded by this policy.

Include, as soon as practicable:

(1) How, when and where the "accident" or "loss" occurred and if a claim is made or "suit" is brought, written notice of the claim or "suit" including, but not limited to, the date and details of such claim or "suit";

(2) The "insured's" name and address; and

(3) To the extent possible, the names and addresses of any injured persons and witnesses.

If you report an "accident", claim, "suit" or "loss" to another insurer when you should have reported to us, your failure to report to us will not be seen as a violation of these amended duties provided you give us notice as soon as practicable after the fact of the delay becomes known to you.

P. Waiver of Transfer Of Rights Of Recovery Against Others To Us

The following is added to the **Transfer Of Rights Of Recovery Against Others To Us** Condition:

This Condition does not apply to the extent required of you by a written contract, executed prior to any "accident" or "loss", provided that the "accident" or "loss" arises out of operations contemplated by such contract. This waiver only applies to the person or organization designated in the contract.

Q. Employee Hired Autos – Physical Damage

Paragraph **b.** of the **Other Insurance** Condition in the Business Auto Coverage Form and Paragraph **f.** of the **Other Insurance – Primary and Excess Insurance Provisions** Condition in the Motor Carrier Coverage Form are replaced by the following:

For Hired Auto Physical Damage Coverage, the following are deemed to be covered "autos" you own:

(1) Any covered "auto" you lease, hire, rent or borrow; and

(2) Any covered "auto" hired or rented under a written contract or written agreement entered into by an "employee" or elected or appointed official with your permission while being operated within the course and scope of that "employee's" employment by you or that elected or appointed official's duties as respect their obligations to you.

FOR BIDDING PURPOSES

However, any "auto" that is leased, hired, rented or borrowed with a driver is not a covered "auto".

R. Unintentional Failure to Disclose Hazards

The following is added to the **Concealment, Misrepresentation Or Fraud** Condition:

However, we will not deny coverage under this Coverage Form if you unintentionally:

(1) Fail to disclose any hazards existing at the inception date of this Coverage Form; or

(2) Make an error, omission, improper description of "autos" or other misstatement of information.

You must notify us as soon as possible after the discovery of any hazards or any other information that was not provided to us prior to the acceptance of this policy.

S. Hired Auto – World Wide Coverage

Paragraph **7a.(5)** of the **Policy Period, Coverage Territory** Condition is replaced by the following:

(5) Anywhere in the world if a covered "auto" is leased, hired, rented or borrowed for a period of 60 days or less,

T. Bodily Injury Redefined

The definition of "bodily injury" in the **Definitions** Section is replaced by the following:

"Bodily injury" means bodily injury, sickness or disease, sustained by a person including death or mental anguish, resulting from any of these at any time. Mental anguish means any type of mental or emotional illness or disease.

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BAP0381557-03

SCHEDULE OF LOSS PAYEE(S)

Insurance for this coverage part provided by:
ZURICH AMERICAN INSURANCE COMPANY

St. Veh. #	Description of Vehicle	Loss Payee and Mailing Address
		ANY PERSON OR ORGANIZATION WITH WHOM YOU HAVE AGREED, THROUGH WRITTEN CONTRACT, AGREEMENT OR PERMIT, EXECUTED PRIOR TO THE LOSS, TO PROVIDE LOSS PAYABLE COVERAGE.

FOR BIDDING PURPOSES

U-CA-387-A (07-94)

BAP0381557-03

POLICY NUMBER:

COMMERCIAL AUTO
CA 20 70 10 13

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

COVERAGE FOR CERTAIN OPERATIONS IN CONNECTION WITH RAILROADS

This endorsement modifies insurance provided under the following:

AUTO DEALERS COVERAGE FORM
BUSINESS AUTO COVERAGE FORM
MOTOR CARRIERS COVERAGE FORM

With respect to coverage provided under this endorsement, the provisions of the Coverage Form apply unless modified by the endorsement.

This endorsement changes the policy effective on the inception date of the policy unless another date is indicated below.

Named Insured:
Endorsement Effective Date:

SCHEDULE

FOR BIDDING PURPOSES

Scheduled Railroad	Designated Job Site
ALL CONTRACTS FOR WORK DONE	ALL CONTRACTS FOR WORK DONE
FOR RAILROADS.	FOR RAILROADS.
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

With respect to the use of a covered "auto" in operations for or affecting a railroad designated in the Schedule at a Designated Job Site, the two exceptions contained in the definition of "insured contract" relating to construction or demolition operations performed within 50 feet of a railroad do not apply.

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BAP0381557-03

COMMERCIAL AUTO
CA 99 48 10 13

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

POLLUTION LIABILITY – BROADENED COVERAGE FOR COVERED AUTOS – BUSINESS AUTO AND MOTOR CARRIER COVERAGE FORMS

This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE FORM
MOTOR CARRIER COVERAGE FORM

With respect to coverage provided by this endorsement, the provisions of the Coverage Form apply unless modified by the endorsement.

A. Covered Autos Liability Coverage is changed as follows:

1. Paragraph **a.** of the **Pollution** Exclusion applies only to liability assumed under a contract or agreement.

2. With respect to the coverage afforded by Paragraph **A.1.** above, Exclusion **B.6. Care, Custody Or Control** does not apply.

B. Changes In Definitions

For the purposes of this endorsement, Paragraph **D.** of the **Definitions** Section is replaced by the following:

D. "Covered pollution cost or expense" means any cost or expense arising out of:

1. Any request, demand, order or statutory or regulatory requirement that any "insured" or others test for, monitor, clean up, remove, contain, treat, detoxify or neutralize, or in any way respond to, or assess the effects of "pollutants"; or

2. Any claim or "suit" by or on behalf of a governmental authority for damages because of testing for, monitoring, cleaning up, removing, containing, treating, detoxifying or neutralizing, or in any way responding to or assessing the effects of "pollutants".

"Covered pollution cost or expense" does not include any cost or expense arising out of the actual, alleged or threatened discharge, dispersal, seepage, migration, release or escape of "pollutants":

a. Before the "pollutants" or any property in which the "pollutants" are contained are moved from the place where they are accepted by the "insured" for movement into or onto the covered "auto"; or

b. After the "pollutants" or any property in which the "pollutants" are contained are moved from the covered "auto" to the place where they are finally delivered, disposed of or abandoned by the "insured".

Paragraphs **a.** and **b.** above do not apply to "accidents" that occur away from premises owned by or rented to an "insured" with respect to "pollutants" not in or upon a covered "auto" if:

(1) The "pollutants" or any property in which the "pollutants" are contained are upset, overturned or damaged as a result of the maintenance or use of a covered "auto"; and

(2) The discharge, dispersal, seepage, migration, release or escape of the "pollutants" is caused directly by such upset, overturn or damage.

FOR BIDDING PURPOSES

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WORKERS COMPENSATION AND EMPLOYERS LIABILITY INSURANCE POLICY **WC 00 03 13**

(Ed. 4-84)

WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule. (This agreement applies only to the extent that you perform work under a written contract that requires you to obtain this agreement from us.)

This agreement shall not operate directly or indirectly to benefit anyone not named in the Schedule.

Schedule

ANY PERSON OR ORGANIZATION FOR WHOM YOU ARE REQUIRED BY WRITTEN CONTRACT OR AGREEMENT TO OBTAIN THIS WAIVER OF RIGHTS FROM US

FOR BIDDING PURPOSES

This endorsement changes the policy to which it is attached and is effective on the date issued unless otherwise stated.

(The information below is required only when this endorsement is issued subsequent to preparation of the policy.)

Endorsement Effective Policy No. WC0381555-03 Endorsement No.

Insured Safety Marking, Inc. Premium $

Insurance Company American Zurich Insurance Company Countersigned By _____

WC 00 03 13
(Ed. 4-84)

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EXCESS LIABILITY COVERAGE FOLLOW FORM (SHORT FORM)

Read the entire policy carefully to determine rights, duties and what is and is not covered. Throughout this policy the words "you" and "your" refer to the Named Insured. The words "we", "us" and "our" refer to the Company providing this insurance. The word "insured" means any person or organization qualifying as such in the "first underlying insurance" which is the controlling policy listed in Item 5 of the Declarations, unless designated otherwise in the Declarations. Other words and phrases that appear in quotation marks have special meaning and can be found in the DEFINITIONS Section or the specific policy provision where they appear.

In consideration of the payment of the premium and in reliance upon the statements in the Declarations, we agree with you to provide coverage as follows:

INSURING AGREEMENTS

I. COVERAGE

We will pay on behalf of the insured the amount of "loss" covered by this insurance in excess of the "underlying limits of insurance" subject to the LIMITS OF INSURANCE Section. This policy will follow form to the terms, conditions, definitions, and exclusions of the "first underlying insurance" in effect the first day of the Policy Period, except to the extent that the terms, conditions, definitions, and exclusions of this policy differ from the "first underlying insurance." In no event shall this policy provide broader coverage than is provided by any policy in the "underlying insurance" shown in Item 5. of the Declarations, except if specifically provided otherwise by endorsement.

II. LIMITS OF INSURANCE

FOR BIDDING PURPOSES

A. The Each Occurrence limit stated in Item 4. of the Declarations is the most we will pay for all "loss" arising out of any one occurrence to which this policy applies.

B. The aggregate limit shown in Item 4. of the Declarations is the most we will pay for all "loss" that is subject to an aggregate limit provided by the "first underlying insurance" and shall apply in the same manner as the aggregate limits provided by the "first underlying insurance".

C. This policy applies only in excess of the "underlying limits of insurance" and only after the "underlying limits of insurance" have been exhausted.

III. DEFENSE

We will follow the Defense provisions of the "first underlying insurance". In the event there are no Defense provisions contained in the "first underlying insurance", we will have the right, but not the duty to be associated with you or your underlying insurer or both in the investigation of any claim or defense of any suit which in our opinion may create liability to our policy for "loss." If we exercise such right, we will do so at our own expense, but we will have no such expense obligation or liability once the Limits of Insurance are exhausted.

IV. PREMIUM

If any additional premium charge is made to the "underlying insurance" during the Policy Period or if there is an increase in the risk assumed by us, our premium may be adjusted.

V. DEFINITIONS

A. "Loss" means those sums actually paid in the settlement or satisfaction of a claim which you are legally obligated to pay as damages, including but not limited to "bodily injury" and "property damage", after making proper deductions for all recoveries and salvage.

B. "Underlying limits of insurance" means the sum of the limits of all applicable "underlying insurance" listed in Item 5. of the Declarations, including self-insured retentions (SIRs), deductibles or other forms of insurance or self-insurance applicable to a given claim or occurrence.

VI. CONDITIONS

A. Changes

This policy can only be changed by a written endorsement signed by one of our authorized representatives that becomes a part of this policy.

B. First Named Insured Duties

The person or organization first named in Item 1. of the Declarations is responsible for the payment of all premiums. The first Named Insured will act on behalf of all other Named Insureds for the giving and receiving of notice of cancellation or the receipt of any return premium that become payable.

C. Maintenance of "Underlying Insurance"

During the period of this policy, you agree to keep all "underlying insurance" in full force and effect and that the "underlying limits of insurance" will be maintained, except to the extent such limits may be reduced or exhausted by payment for "loss" covered by "underlying insurance." If you fail to comply with these requirements, we will only be liable to the same extent that we would have been had you fully complied with these requirements.

D. Notice of Occurrence

You must see to it that we are notified as soon as practicable of an occurrence which may result in a claim or suit which may involve this policy. If a claim or suit against any insured is reasonably likely to involve this policy you must notify us in writing as soon as practicable.

FOR BIDDING PURPOSES

If the "underlying limits of insurance" are exhausted solely by payment of "loss", no insured will, except at their own cost, voluntarily make a payment, assume any obligation, or incur any expense, other than for first aid, without our written consent.

E. Other Insurance

If other insurance applies to a "loss" that is also covered by this policy, this policy will apply excess of the other insurance. However, this provision will not apply if the other insurance is specifically written to be excess of this policy. Other insurance includes any type of self-insurance or other mechanism by which an insured arranges for funding of legal liabilities.

F. Conformity to Statute

Any terms of this policy which are in conflict with the terms of any applicable law or regulation governing this policy are hereby amended to conform to such laws and regulations.

G. When "Loss" is Payable

Coverage under this policy will not apply unless and until the insured or the insured's "underlying insurance" is obligated to pay the full amount of the "underlying limits of insurance."

When the amount of "loss" has finally been determined, we will promptly pay on behalf of the insured the amount of "loss" falling within the terms of this policy.

If the insured has rights to recover all or part of any payment we have made under this policy, then those rights are transferred to us and the insured must do nothing to impair those rights. At our request the insured will bring suit or transfer those rights to us to enforce them.

THIS ENDORSEMENT CHANGES THE POLICY, PLEASE READ IT CAREFULLY.

PRIMARY NON-CONTRIBUTORY ENDORSEMENT

Under **CONDITIONS**, the **Other Insurance** Condition is amended to include the following additional provision:

When required by written contract or agreement, the insurance provided by this policy is primary insurance and we will not seek contribution from any other insurance available to the person or organization covered as additional insured hereunder unless the other insurance is provided by a contractor, other than you, for the same operations and job location.

This endorsement does not change any other provision of the policy.

FOR BIDDING PURPOSES

EXCESS/UMBRELLA

MARKEL®

COMPANY NAME

COMMERCIAL EXCESS LIABILITY POLICY

Various provisions in this policy restrict coverage. Read the entire policy and any underlying insurance carefully to determine rights, duties and what is and is not covered.

Throughout this policy, the words you and your refer to the Named Insured shown in the Declarations and any other person or organization qualifying as an Insured under the underlying insurance . The words we and us refer to the company providing this insurance.

Other words and phrases that appear in quotation marks have special meanings. Refer to Section **V.** Definitions.

SECTION I. INSURING AGREEMENT

1. We will pay those sums in excess of the limits shown in the Schedule Of Underlying Insurance that you become legally obligated to pay as damages because of injury to which this insurance applies, provided that the underlying insurance also applies, or would apply but for the exhaustion of its applicable Limits Of Insurance.
2. This policy is subject to the same terms, conditions, agreements, exclusions and definitions as the underlying insurance , except:
   a. We will have no obligation under this policy with respect to any claim or suit that is settled without our consent; and
   b. With respect to any provisions to the contrary contained in this policy.
3. The amount we will pay for damages shall not exceed the Limits Of Insurance shown in the Declarations.
4. We will have the right to participate in the defense of claims or suits against you seeking damages because of injury to which this insurance may apply. We will have a duty to defend such claims or suits when the applicable limit of insurance of the underlying insurance has been exhausted by payment of judgments, settlements and any cost or expense subject to such limit. We may, at our discretion, investigate and settle any claim or suit. Our right and duty to defend ends when the applicable limit shown in the Declarations has been used up by our payment of judgments or settlements.

FOR BIDDING PURPOSES

SECTION II. EXCLUSIONS

The exclusions applicable to the underlying insurance also apply to this policy.

SECTION III. LIMITS OF INSURANCE

1. The Limit Of Insurance shown in the Declarations as the Each Occurrence Limit is the most we will pay for damages arising out of any one occurrence or offense.
2. If a Limit Of Insurance is shown in the Declarations as the Aggregate Limit, that amount will apply in the same manner as the aggregate limits shown in the Schedule Of Underlying Insurance.

SECTION IV. CONDITIONS

If any of the following conditions are contrary to conditions contained in the underlying insurance the provisions contained in this policy apply.

1. **Appeals**

   In the event the underlying insurer(s) elects not to appeal a judgment in excess of the limits of the underlying insurance , we may elect to make such an appeal. If we so elect, we shall be liable, in addition to the applicable Limits Of Insurance, for all defense expenses we incur.

2. **Maintenance Of Underlying Insurance**

a. You agree to maintain the underlying insurance in full force and effect during the term of this policy, and to inform us within 30 days of any replacement or material change of that underlying insurance by the same or another company. Failure to maintain the underlying insurance in full force and effect or to meet all conditions and warranties of such underlying insurance will not invalidate insurance provided under this policy, but insurance provided under this policy shall apply as if the "underlying insurance" were available and collectible.

b. Reduction or exhaustion of the aggregate limit of any underlying insurance by payments for judgments, settlements or any costs or expenses subject to that limit, will not be a failure to maintain underlying insurance in full force and effect.

c. No statement contained in this condition limits our right to cancel or not renew this policy.

For purposes of this policy, if any underlying insurance is not available or collectible because of:

a. The bankruptcy or insolvency of the underlying insurer(s) providing such underlying insurance ; or

b. The inability or failure for any other reason of such underlying insurer(s) to comply with any of the obligations of its policy;

then this policy shall apply and amounts payable hereunder shall be determined as if such underlying insurance were available and collectible.

3. Other Insurance

This insurance is excess over any other valid and collectible insurance whether primary, excess, contingent or any other basis, except other insurance written specifically to be excess over this insurance.

4. Cancellation

a. The first Named Insured shown in the Declarations may cancel this policy by mailing or delivering advance written notice of cancellation to us.

b. We may cancel this policy by mailing or delivering written notice of cancellation to the first Named Insured at least:

(1) 10 days before the effective date of cancellation if we cancel for nonpayment of premium; or

(2) 60 days before the effective date of cancellation if we cancel for any other reason.

FOR BIDDING PURPOSES

c. We will mail or deliver our notice to the Named Insured s last mailing address known to us.

d. Notice of cancellation will state the effective date of cancellation. The policy will end on that date.

e. If this policy is cancelled, we will send the first Named Insured any premium refund due. If we cancel, the refund will be pro rata. If the first Named Insured cancels, the refund may be less than pro rata. The cancellation will be effective even if we have not made or offered a refund.

f. If notice is mailed, proof of mailing will be sufficient proof of notice.

5. Policy Period

This insurance will respond to injury or damage that occurs, or arises from an offense committed, during the Policy Period shown in the Declarations.

SECTION V. DEFINITIONS

Underlying insurance means the policies or self-insurance shown in the Schedule Of Underlying Insurance, any replacements thereof and other policies purchased or issued for newly acquired or formed organizations. Policies purchased or issued replacements of policies or self-insurance listed in the Schedule Of Underlying Insurance or for newly acquired or formed organizations shall not be more restrictive than those listed in the Schedule Of Underlying Insurance. All underlying insurance shall be maintained by you in accordance with the Maintenance Of Underlying Insurance condition of this policy.

EVANSTON INSURANCE COMPANY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

CHANGES – PRIMARY AND NONCONTRIBUTORY

This endorsement modifies insurance provided under the following:

COMMERCIAL EXCESS LIABILITY POLICY

Paragraph **3.** Other Insurance in Section **IV.** Conditions is replaced by the following:

3. Other Insurance

a. Excess

This insurance is excess over any other valid and collectible insurance whether primary, excess, contingent or any other basis, except if the other insurance is written specifically to be excess over this insurance or if the Primary And Noncontributory Excess Insurance provision below applies.

b. Primary And Noncontributory Excess Insurance

This insurance is excess over any other valid and collectible insurance whether primary, excess, contingent or any other basis; however, this insurance will not seek contribution from any other liability insurance available to an additional insured that has been granted primary and non-contributory status under any "underlying insurance" shown in the Schedule Of Underlying Insurance. This provision applies only if:

FOR BIDDING PURPOSES

(1) All limits provided by "underlying insurance" have been exhausted by payment of judgments against the additional insured or payment of settlements that the "underlying insurance" has agreed to in writing;

(2) The additional insured is a Named Insured under such other liability insurance available to the additional insured; and

(3) You have specifically agreed in writing in a contract or agreement executed prior to the claim that this excess liability insurance would be primary and would not seek contribution from any other liability insurance available to the additional insured.

The insurance provided by this endorsement does not drop down to provide coverage if the "underlying Insurance" does not pay for the claim for any reason whatsoever.

All other terms and conditions remain unchanged.

EXCESS/UMBRELLA
POLICY NUMBER:
MKLM1EUE100221

COMPANY NAME

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US

This endorsement modifies insurance provided under the following:

COMMERCIAL EXCESS LIABILITY POLICY

SCHEDULE
Person or Organization:
Additional Premium $

FOR BIDDING PURPOSES

The following is added to Section **IV.** Conditions:

Waiver Of Transfer Of Rights Of Recovery Against Others To Us

We waive any right of recovery we may have against the person or organization shown in the Schedule above because of payments we make for injury or damage arising out of your ongoing operations or your work done under a written contract or agreement with that person or organization and included in the products-completed operations hazard. This waiver applies only to the person or organization shown in the Schedule above.

All other terms and conditions remain unchanged.

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Endorsement #

Limited Other Insurance Condition Amendment – New York

Policy No.	Eff. Date of Pol.	Exp. Date of Pol.	Eff. Date of End.	Producer	Add'l Prem.	Return Prem.
AEC 7564971-00	7/1/2018	7/1/2019				

Named Insured and Mailing Address:

Safety Marking, Inc.
255 Hancock Ave.
Bridgeport, CT 06605

Producer:

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

Condition **G. Other Insurance** of **SECTION V. CONDITIONS, paragraph G., Other Insurance** is deleted and replaced with the following:

G. Other Insurance

If other valid and collectible insurance applies to damages that are also covered by this policy, this policy will apply excess of the other insurance. However, this provision will not apply:

FOR BIDDING PURPOSES

1. If the other insurance is written to be excess of this policy; or
2. If you have agreed in a written contract to carry insurance to apply prior to and be non-contributory with that of another person or organization's insurance, but only as respects damages arising out of insured operations or work on your behalf performed under such written contract. However, the limits available to the other person or organization will be the lesser of our policy Limits of Insurance or the limits required by such written contract. In that case, other insurance of that person or organization will apply as excess and not contribute prior to the insurance afforded by this policy.

Nothing herein will be construed to make this policy subject to the terms, conditions and limitations of such other insurance.

ALL OTHER TERMS AND CONDITIONS OF THIS POLICY REMAIN UNCHANGED.

Includes copyrighted material of Insurance Services Office, Inc., with its permission.

Following Form Excess Liability Policy

There are provisions in this policy that restrict coverage. Read the entire policy carefully to determine rights, duties and what is and is not covered.

Throughout this policy, the words "you" and "your" refer to the Named Insured. The words "we", "us" and "our" refer to the company providing this insurance.

The word "insured(s)" means any person(s) or organization(s) qualifying as such in the Controlling Underlying Policy shown in Item **6.A.** of the Declarations, but only to the extent and within the scope for which such "insureds" qualify for coverage in the Controlling Underlying Policy.

Words and phrases that are printed in bold-face type are defined in this policy. These definitions are found in **SECTION VI. DEFINITIONS** of this policy or in the specific policy provision where they appear.

In consideration of the payment of the premium and in reliance upon the statements in the Declarations and in accordance with the provisions of this policy, we agree with you to provide coverage as follows:.

Insuring Agreements

SECTION I. COVERAGE

A. We will pay on behalf of the insured the sums in excess of the Total Limits Of All Underlying Insurance shown in Item **6.B.** of the Declarations that the insured becomes legally obligated to pay as damages.

B. This insurance applies only to damages covered by the Controlling Underlying Policy as shown in Item **6.A.** of the Declarations. Except as otherwise provided by this policy, the coverage follows the definitions, terms, conditions, limitations, and exclusions of the Controlling Underlying Policy in effect at the inception of this policy.

C. Notwithstanding anything to the contrary contained in Paragraphs **A.** and **B.** above, if the Controlling Underlying Policy does not apply to damages for reasons other than exhaustion of applicable Limits of Insurance by payment of **loss**, then this policy does not apply to such damages.

FOR BIDDING PURPOSES

D. The amount we will pay is limited as described in **SECTION II. LIMITS OF INSURANCE**.

SECTION II. LIMITS OF INSURANCE

A. The Limits of Insurance shown in the Declarations and the rules below describe the most we will pay regardless of the number of:

1. Insureds;

2. Claims made or suits brought; or

3. Persons or organizations making claims or bringing suits.

B. The Limits of Insurance of this policy will apply as follows:

1. This policy applies only in excess of the Total Limits Of All Underlying Insurance shown in Item **6.B.** of the Declarations.

2. If our Limits of Insurance shown in Item **4.** of the Declarations are less than the total Limits of Insurance shown in Item **4.**, the limits of our liability will be that proportion of the **loss** which our Limits of Insurance bear to the total Limits of Insurance in Item **4.** and which is in excess of the Total Limits Of All Underlying Insurance as shown in Item **6.B.** of the Declarations.

3. Subject to Paragraph **B.2.** above, the Other Aggregate Limit shown in Item **4.B.** of the Declarations is the most we will pay for all **loss** to which this policy applies, except for **loss** covered under the products/completed operations hazard, that is subject to an aggregate limit provided by the Controlling Underlying Policy. The Other Aggregate Limit applies separately and in the same manner as the aggregate limits provided by the Controlling Underlying Policy.

4. Subject to Paragraph **B.2.** above, the limit shown in Item **4.C.** of the Declarations for the Products/Completed Operations Aggregate is the most we will pay for all **loss** to which this policy applies under the products/

you fully complied with these requirements.

E. Nonrenewal

If we decide not to renew this policy, we will mail or deliver to the first Named Insured shown in Item 1. of the Declarations written notice of the nonrenewal not less than thirty (30) days before the expiration date.

If notice is mailed, proof of mailing will be sufficient proof of notice.

F. Notice of Occurrence

1. You must see to it that we are notified as soon as practicable of an occurrence which may result in damages covered by this policy. To the extent possible, notice will include:
   a. How, when and where the occurrence took place;
   b. The names and addresses of any injured persons and witnesses; and
   c. The nature and location of any injury or damage arising out of the occurrence.
2. Knowledge of an occurrence by the agent, servant or employee of yours, will not in itself constitute knowledge by the insured unless you, or any employee authorized by you to give or receive notice of an occurrence, claim or suit receives such notice from the agent, servant or employee.
3. If a claim or suit against any insured is reasonably likely to involve this policy, you must notify us in writing as soon as practicable.
4. You and any other involved insured must:
   a. Immediately send us copies of any demands, notices, summonses or legal papers received in connection with the claim or suit;
   b. Authorize us to obtain records and other information;
   c. Cooperate with us in the investigation, settlement or defense of the claim or suit; and
   d. Assist us, upon our request, in the enforcement of any right against any person or organization which may be liable to the insured because of injury or damage to which this insurance may also apply.
5. The insureds will not, except at their own cost, voluntarily make a payment, assume any obligation, or incur any expense, other than for first aid, without our consent.
6. Your failure to give notice of an occurrence to us will not invalidate coverage under this policy if the occurrence was inadvertently reported to another insurer. However, you will report any such occurrence to us as soon as practicable once you become aware of such error.

FOR BIDDING PURPOSES

G. Other Insurance

If other insurance applies to damages that are also covered by this policy, this policy will apply excess of the other insurance. Nothing herein will be construed to make this policy subject to the terms, conditions and limitations of such other insurance. However, this provision will not apply if the other insurance is written to be excess of this policy.

Other insurance includes any type of self-insurance or other mechanism by which an insured arranges for funding of legal liabilities.

H. Terms Conformed to Statute

The terms of this policy that are in conflict with the statutes, laws, ordinances or regulations in any country, jurisdiction, state or province where this policy is issued are amended to conform to such statutes, laws, ordinances or regulations. If we are prevented by law or statute from paying on behalf of the insured, then we will, where permitted by law or statute, indemnify the insured.

I. Transfer of Rights of Recovery Against Others to Us

1. If the insured has rights to recover all or part of any payment we have made under this insurance, those rights are transferred to us. The insured must do nothing after the loss to impair them. At our request, the insured will

bring suit or transfer those rights to us and help us enforce them.

However, if any insured is required to waive their rights of recovery from others by a written contract or agreement executed before a loss, we agree to waive our rights of recovery to the extent required by the written contract or agreement. This waiver of rights will not be construed to be a waiver with respect to any other operations for which the insured has not waived their rights of recovery by contract.

2. Any amount recovered will be apportioned in the inverse order of payment of loss to the extent of actual payment. The expenses of all such recovery proceedings will be apportioned in the ratio of respective recoveries.

J. Unintentional Errors and Omissions

Any unintentional error or omission in the description of, or failure to describe completely, any exposure intended to be covered by this policy, will not invalidate or affect the coverage for that exposure. However, the insured must report such error or omission to us as soon as practicable after its discovery.

K. When Loss is Payable

Coverage under this policy will not apply unless and until the insured or the insured's Underlying Insurance has paid or is obligated to pay the full amount of the Total Limits Of All Underlying Insurance shown in Item 6.B. of the Declarations.

When the amount of loss is determined by an agreed settlement or a final judgment against an insured, we will promptly pay on behalf of the insured the amount of loss covered under the terms of this policy.

SECTION VI. DEFINITIONS

A. Hostile fire means one which becomes uncontrollable or breaks out from where it was intended to be.

B. Loss means damages that the insured is legally obligated to pay after making proper deductions for all recoveries and salvage. However,

1. Loss also includes defense expenses and supplementary payments if any Underlying Insurance includes defense expenses and supplementary payments within the Limits of Insurance; or

2. Loss does not include defense expenses and supplementary payments if none of the Underlying Insurance includes defense expenses and supplementary payments within the Limits of Insurance.

FOR BIDDING PURPOSES

C. Occurrence means a covered event as defined in the Controlling Underlying Policy.

D. Pollutants means any solid, liquid, gaseous, or thermal irritant or contaminant including smoke, vapor, soot, fumes, acid, alkalis, chemicals and waste. Waste includes material to be recycled, reconditioned or reclaimed

SMC
Safety Marking Inc.

Traffic Guidelines
Bid 681

Notes apply to entire Bid

Minimum Charge for Paint Handwork $800.00

Minimum Charge for Long Line Paint $1,200.00

Minimum Charge for Epoxy $1,750.00

Minimum Charge for Thermoplastic $1,750.00

Minimum Charge for Grooving $1,750.00

Layout Charge $150.00 Per Hour

Bid Item 681-02-13 – Unit of Measure Bid as EACH not SF
Bid Item 681-02-14 – Unit of Measure Bid as EACH not SF
Bid Item 681-02-19 – Unit of Measure Bid as EACH

Safety Marking, Inc.

Item: **Pavement Lines:Pavement Lines:Pavement Lines:Pavement Lines:Double Yellow Lines (Measure as a pair of 4" lines)**

Attachments

BidSync Vendor Billing Agreement 2019.pdf

SAFETY-VEHICLE LIST BY TYPE.pdf

CT References-Names Contact Info.pdf

BIDSYNC VENDOR BILLING AGREEMENT

BidSync will contact the Accounts Payable personnel for your company for any billing related questions. Please complete the Account Payable information below:

COMPANY NAME:	SAFETY MARKING, INC.
ACCOUNTS PAYABLE (AP) CONTACT	First name: John Last name: Matis
DIRECT EMAIL ADDRESS:	jmatis@safetymarking.net
DIRECT PHONE NUMBER:	203.814-3412
ALTERNATE PHONE NUMBER:	203.333-6870
FAX NUMBER:	203.330-2743

BILLING OPTIONS

By selecting one of the following billing options and placing an offer, you are agreeing to pay BidSync 2% of the award amount, if you are the winning bidder. If you are the winning bidder, the agency will confirm the award amount once the bid has ended and the agency has made an award decision. The invoice you will receive from BidSync will reflect your billing selection and payment due dates for the amount awarded to your company by the agency.

☒ **PAY ON INVOICE**	BidSync's Pay On Invoice options allows Vendors greater flexibility working with lengthy Government contracts by accepting payment of the fee divided into three equal payments. The payments will be due within 30 days, 60 days, and 90 days from the date of the initial award. If at any time the payment is late, penalties and interest will apply.
☐ **PAY ON AWARD**	BidSync's Pay On Award option offers a 2.0% discount to the total fee when full payment is made within thirty (30) days of the award. If full payment is not received within thirty (30) days of award, the pay option will default to the Pay On Invoice Option.
☐ **CUSTOM PAYMENT SCHEDULE**	BidSync's Custom Pay Schedule allows Vendors to tailor payment to be more appropriate to your contract. The Vendor may contact BidSync's Accounts Receivable at 800-990-9339, ext 478 to set a custom payment schedule, within fifteen (15) days of bid award. If arrangements have not been made within fifteen (15) days of bid award, the pay option will default to the Pay On Invoice Option.

If you have any questions about this Billing Agreement, you may directly contact BidSync's Accounts Receivable:
Toll free: 800-990-9339 ext. 245
Email: billing@bidsync.com

AGREEMENT CONFIRMATION

I, John Matis, as an authorized agent for

Capitol Region Council of Governments
BidSync
12/13/2018

SAFETY MARKING, INC. (company name) have read and understood the above stated billing agreement. By indicating a billing selection above, I acknowledge and agree to make said payments directly to BidSync if my company is the **winning** bidder for this bid.

	Controller
Signature of authorized agent	Title
John Matis	December 13, 2018
Printed Name	Date

DISCLAIMER: If the Vendor does not pay BidSync within 60 days of invoice, the Vendor's access to the system will be discontinued and any outstanding amount may be sold to a collections agency. Any and all fees associated with collections will be borne by the Vendor. A late fee will accrue at the rate of two percent (2%) per month for any fees not paid when due. Notwithstanding the foregoing to the contrary, the fees charged pursuant to this section shall not contravene laws of the State where Vendor is based. We may, in our sole discretion, change our fee policies, the fees we charge, and some or all of our system or services at any time. All fees must be paid in U.S. Dollars. Vendor is responsible for paying any and all applicable taxes.

SAFETY MARKING INC. **Equipment List by Type** **12-12-18** **Page 1**

Equipment	Description		Year	Make	Model	Vin #	Marker#
ATTENUATOR CONE RACK							
CT-0051	AT-51	ATTENUATOR/CONE/MSGBRD	2005	ISUZU	FXR	4GTM8F1385F700860	39705-A
CT-0052	AT-52	ATTENUATOR/CONE/FLATBED	2005	ISUZU	FXR	4GTM8F1375F700879	39863-A
CT-0053	AT-53	ATTENUATOR/CONE/MSGBRD	2006	ISUZU	FXR	4GTM8F1336F700265	59674A
CT-0054	AT-54	ATTENUATOR/SIGNBOARD	2000	INTERNATIO	4700	1HTSCAAM21H331594	K61437
CT-0055	AT-55	ATTENUATOR/SIGNBOARD	2000	INTERNATIO	4700	1HTSCAAM9YH315452	K67593
CT-0056	AT-56	ATTENUATOR/TAPE TRUCK	2003	FREIGHTLIN	FL 70	1FVABTAKX3HK38593	47973-A
CT-0057	AT-57	ATTENUATOR/CONE/FLATBED	2010	FORD	F750	3FRXF7FFXAV275369	49360A
CT-0058	AT-58	ATTENUATOR/CONE/RACK BODY	2010	FORD	F-750	3FRXF7FG8AV271152	50431A
CT-0059	AT-59	ATTENUATOR/CONE/RACK BODY	2010	FORD	F-750	3FRXF7FE5AV274217	50430A
CT-0060	AT-60	ATTENUATOR/MESSAGE BOARD	2004	INTERNATIO	4300	1HTMMAAL14H663124	K79890
CT-0061	AT-61	ATTENUATOR/MESSAGE BOARD	2004	INTERNATIO	4300	1HTMMAAL84H663122	102775-RI
CT-0062	AT-62	ATTENUATOR/MESSAGE BOARD	2011	INTERNATIO	4300	1HTJTSKL4BH363813	K95995
CT-0063	AT-63	ATTENUATOR/MESSAGE BOARD	2011	INTERNATIO	4300	1HTJTSKL7BH363806	K95994
CT-0064	AT-64	ATTENUATOR/MESSAGE BOARD	2000	GMC/ISUZU	FTR	1GDM7C1C1YJ515307	32655A
CT-0065	AT-65	ATTENUATOR CONE MESSAGE B	2015	FORD	F-750	3FRXF7FL1FV003113	57103A
CT-0066	AT-66	ATTENUATOR/CONE/MSGBRD	2016	INTERNATIO	4300 SBA 4	1HTMMMMN5GH283142	58173A
CT-0067	AT-67	ATTENUATOR/CONE/MSGBRD	2008	FORD	F-750	3FRXF75C88V075270	48963A
BOX TRUCK							
BX-0007	V-7	BOX TRUCK	1999	CHEVROLET	W-4	J8BC4B140X7015136	J-87321
BX-0010	V-10	BOX TRUCK	2006	ISUZU	NQR	JALE5B16967903395	K38457
BX-0011	V-11	BOX TRUCK	2003	ISUZU	NQR	JALE5B14437902164	K71639
BX-0013	V-13	BOX TRUCK	2010	ISUZU	NQR	JALE5W162C7900213	K83845
BX-0014	V-14	BOX TRUCK	2004	ISUZU	FRR	JALF5C13647700946	J22139
BX-0015	AV-15	AIRPORT BOX VAN	2012	FORD	F-750	3FRXF7FE7BV692327	53640A
BX-0016	AV-16	AIRPORT BOX VAN	2015	FORD	F-750	3FRXW7FE7FV720150	57102A
BX-0017	V-17	BOX TRUCK	2012	ISUZU	NPR	JALC4W164C7002206	AB10954
BX-0018	V-18	BOX TRUCK	2012	ISUZU	NPR	JALC4W160C7002199	AB10953
BX-0019	V-19	BOX TRUCK	2012	ISUZU	NPR	JALC4W16XC7002324	AB52549
BX-0020	V-20	BOX TRUCK	2010	ISUZU	NPR	JALE5W162A7900435	AE05890
BX-0021	AV-21	AIRPORT BOX VAN	2017	FORD	F-750	1FDYW7DE8HDB06518	61110A
BX-0022	AV-22	AIRPORT BOX VAN	2017	FORD	F-750	1FDYW7DE6HDB06517	61179A
BX-0023	V-23	BOX TRUCK	2001	GMC	W55042	J8DE5B14917900973	K90616
BROOM							
BR-0004	BCT-4	BROOM/CONE TRUCK	2004	GMC	WT550	J8DF5C13147700451	K-38467
SW-0002	S-2	BROOM BEAR SWEEPER	2000	FREIGHTLIN	FL70	1FV6HJBA6YHG76794	31304-A
CAR							
CR-0015	CAR-15	CODYS TAHOE	2011	CHEVY	TAHOE	1GNSKAE01BR311430	488YYZ
CR-0016	CAR-16	JACKS JEEP	2013	JEEP	GR CHK	1C4RJFCTOEC239437	912UAN
CR-0017	CAR-17	DEKES JEEP	2014	JEEP	GR CHK	1C4RJFBG1EC415173	AL70672
CR-0018	CAR-18	MARKS JEEP	2015	JEEP	GR CHK	1C4RJFCT5FC914443	8AWAE1
CR-0019	CAR-19	LUKES EQUINOX	2017	CHEVY	EQUINOX	2GNFLFEK7H6279763	C102225
DUMP							
DT-0003	D-3	DUMP TRUCK	2005	STERLING	ACTERRA	2FZACGS05AU32815	41892A
DT-0005	D-5	DUMP TRUCK	2008	FREIGHTLIN	M2	1FVHCYBS38HAB0237	57608A

Equipment	Description		Year	Make	Model	Vin #	Marker#
EPOXY							
EP-0013	ED-13	EPOXY DETAIL SPRAY TRUCK	2008	ISUZU	FVR	4GTJ7F1B68F700146	K47988
EP-0014	E-14	EPOXY PAINT TRUCK 700 GAL	2009	PETERBILT	320	3BPZL00XX9F719864	47727A
EP-0015	EB-15	EPOXY PAINT TRUCK BLACK	2002	ISUZU	FTR	4GTK7C1382J700679	J-85500
EP-0016	E-16	EPOXY PAINT TRUCK 700 GAL	2011	PETERBILT	320	3BPZL70X2CF160021	59673A
EP-0017	E-17	EPOXY PAINT TRUCK 450 GAL	2014	PETERBILT	320	3BPZHJ8XXEF247476	55221A
EP-0018	E-18	EPOXY PAINT TRUCK 825 GAL	2015	PETERBILT	320	3BPZLJ0X9FF292579	57850A
EP-0019	E-19	EPOXY PAINT TRUCK 825 GAL	2016	PETERBILT	320	3BPZLJ0X5GF100785	60090A
EP-0020	ED-20	EPOXY DETAIL SPRAY TRUCK	2017	PETERBILT	220	3BPPHM7X8HF591273	58958A
EP-0021	ED-21	EPOXY DETAIL SPRAY TRUCK	2017	PETERBILT	220	3BPPHM7XXHF591274	58959A
EP-0022	ED-22	EPOXY DETAIL SPRAY TRUCK	2016	ISUZU	NRR	JALE5W164G7303148	AB06911
EP-0023	E-23	EPOXY PAINT TRUCK 450 GAL	2018	PETERBILT	520	3BPDHJ8X0JF177796	60960A
EP-0024	E-24	EPOXY PAINT TRUCK 825 GAL	2018	PETERBILT	520	3BPDXJEX4JF188470	61955A
EP-0025	ED-25	EPOXY DETAIL W/Y SPRAY TR	2018	ISUZU	NRR	JALE5W163J7304380	AE29929
EP-0026	E-26	EPOXY PAINT TRUCK 525 GAL	2019	PETERBILT	520	3BPDKJ8XXKF102963	63798A
FLATBED							
FL-0059	CT-59	CONE TRUCK	2000	ISUZU	NPR	JALC4B141Y7017437	K13712
FL-0060	CT-60	CONE TRUCK	2000	CHEV	W5500	J8BE5B146Y7901386	K32457
FL-0061	CT-61	CONE TRUCK	2000	ISUZU	NPR	JALB4B14817004119	K38454
FL-0062	CT-62	CONE TRUCK	2001	ISUZU	NPR	JALB4B14927005085	K38456
FL-0063	CT-63	CONE TRUCK	2005	FORD	F-450	1FDXF46P65EA40369	K47843
FL-0064	CT-64	CONE TRUCK	2015	ISUZU	NRR	JALE5W169F7301832	L25300
FL-0065	CT-65	CONE TRUCK	2015	ISUZU	NRR	JALE5W16XF7301998	L22273
FL-0066	CT-66	CONE TRUCK	2001	ISUZU	FRR	JALF5C13017701165	J78839
FL-0067	CT-67	CONE TRUCK	2000	ISUZU	FRR	JALF5C131Y7701475	J71130
FL-0068	CT-68	CONE TRUCK	1998	ISUZU	NQR	JALC4B1K1W7001153	J-87713
FL-OO69	CT-69	CONE TRUCK	2003	ISUZU	FRR	JAlf5c13637700816	K10847
DETAIL GLUE							
GL-0004	D-4	DETAIL GLUE TRUCK	2004	INTERNATIO	4000	1HTMMAAMX4H680917	K90617
GRINDING							
GR-0008	G-8	GRINDING TRUCK	2006	ISUZU	FXR	4GTP8F1346F700109	41849A
GR-0009	SAW-9	GROOVING TRUCK	2006	ISUZU	FXR	4GTP8F1396F700414	44622A
GR-0010	G-10	GRINDING TRUCK	2009	ISUZU	FVR	4GTK7F1B09F700004	K58329
GR-0011	G-11	GRINDING TRUCK	2008	ISUZU	FTR	4GTK7F1B68F700328	K78639
GR-0012	G-12	GRINDING TRUCK	2009	ISUZU	T7F042	4GTJ7F1B59F700074	K92585
GR-0014	G-14	GRINDING TRUCK	2006	CHEVY	T7F042	1GBJ7F1386F417159	K94655
GR-0015	SAW-15	GROOVING TRUCK	2015	PETERBILT	320	3BPZHJ8XOFF256690	55220A
GR-0016	G-16	GRINDING TRUCK	2017	PETERBILT	220	3BPPHM7X6HF591272	58960A
GR-0017	G-17	GRINDING TRUCK	2018	PETERBILT	220	3BPPHM7X9JF591577	61111A
PICKUP							
PI-0005	P-5	S-10 PICKUP	2002	CHEVROLET	S-10 PICKU	1GCCS145928193532	3CA604
PI-0006	P-6	F350 PICKUP	2002	FORD	F350 PICKU	1FTSF30F92EA92874	2CW534
PI-0007	P-7	PICK-UP	2003	CHEV	SILVERADO	1GCEK19V03E71980	6CX981
PI-0008	P-8	F250 PICKUP	2004	FORD	F250 2WD	1FTNF20P04ED07352	8CX 303
PI-0009	P-9	F250 PICKUP	2005	FORD	F250	1FTSX21515EB82652	19CV50
PI-0010	P-10	PICK-UP	2000	FORD	SWR SUPE	1FTNF21F8YEA03391	19CZ03
PI-0011	P-11	PICK-UP	2006	FORD	F-250	1FTSF20P46ED24127	57152-RI
PI-0012	P-12	PICKUP	2008	CHEVROLET	SILVERADO	2GCEK13C181115184	64CY39
PI-0013	P-13	PICKUP	2008	CHEVROLET	SILVERADO	2GCEK13CX81177764	64CY40
PI-0014	P-14	PICKUP	2000	CHEVROLET	C2500	1GCGC23R7YF451169	K69153
PI-0015	P-15	F-350 PICKUP	2008	FORD	F-350	1FTWF30518ED04104	K58338
PI-0016	P-16	CHEVY SILVERADO 4X4	2009	CHEVROLET	SILVERADO	3GCEK13C49G286939	101781-RI
PI-0017	P-17	1500 SILVERADO	2017	CHEVY	1500 SILVE	3GCUKREC7HG320281	C102224
PI-0018	P-18	1500 SILVERADO	2017	CHEVY	SILVERADO	1GCVKREC0HZ381959	C129521
PI-0019	P-19	1500 SILVERADO	2014	CHEVY	1500 SILVE	1GCVKREC7EZ379525	C147861

SAFETY MARKING INC. **Equipment List by Type** **12-12-18** **Page 3**

Equipment		Description	Year	Make	Model	Vin #	Marker#
PAINT							
PT-0014	PT-14	PAINT TRUCK 700-GAL	1995	FORD	CARGO 0	1FDYH81EXSVA58977	J-15276
PT-0019	PT-19	PAINT TRUCK 120 GAL	2006	ISUZU	FXR	JALE5B16567301366	K-38502
PT-0020	PT-20	AIRPORT PAINT TRUCK	2007	GMC	T850	1GDP8F1B47F421913	45689A
PT-0021	PT-21	PAINT TRUCK 120 GAL.	2008	ISUZU	FVR	4GTK7F1B88F700315	K66551
PT-0022	PT-22	PAINT TRUCK 120 GAL	2009	ISUZU	FVR	4GTK7F1B88F700363	K76669
PT-0023	PT-23	PAINT TRUCK 700 GAL	2010	PETERBUILT	320	3BPZH58X1AF107141	48864A
PT-0024	PT-24	PAINT TRUCK 700 GAL	2010	PETERBUILT	320	3BPZH58X1AF107142	48865A
PT-0026	PT-26	PAINT TRUCK 700 GAL	2014	PETERBILT	320	3BPZHJ8X5EF251998	55626A
PT-0027	PT-27	PAINT TRUCK 240 GAL	2016	PETERBILT	220	3BPPHM7XGF591043	58369A
PT-0028	PT-28	PAINT TRUCK 700 GAL	2017	PETERBILT	320	3BPZHJ8X4HF107749	59113A
PT-0029	PT-29	PAINT TRUCK 60 GAL	2017	ISUZU	NRR	JALE5W168H7301940	AB06943
PT-0030	PT-30	PAINT TRUCK 120 GALLON	2018	ISUZU	FTR	54DK6S163JSG00439	AE05617
PT-0031	PT-31	PAINT TRUCK 700 GAL YELLO	2019	PETERBILT	520	3BPDKJ8X8KF104307	63699A
RACK							
RA-0040	R-40	RACK BODY	1999	ISUZU	NQR 07/	JALE5B145X7902468	J44536
RA-0041	R-41	RACK BODY	1999	ISUZU	NQR	JALE5B145X7902471	J44541
RA-0042	R-42	RACK BODY	1999	ISUZU	NQR 07/9	JALE5B147X7902245	J44537
RA-0043	R-43	RACK BODY	2001	ISUZU	NQR 01/01	JALE5B14027900023	J77376
RA-0044	R-44	RACK BODY	2002	ISUZU	NQR 01/01	JALE5B14727900049	J77375
RA-0046	R-46	RACK BODY	2003	ISUZU	NQR	JALE5B14937901382	H-99231
RA-0047	R-47	RACK BODY	2003	ISUZU	NQR	JALE5J14237901928	J-99015
RA-0048	R-48	RACK BODY	2005	ISUZU	NQR	JALE5B16057901162	J17780
RA-0049	R-49	RACK BODY	2006	ISUZU	NQR	JALE5J16567900598	K31130
RA-0050	R-50	RACK BODY	2007	ISUZU	FVR	4GTM7F1347F700022	60549A
RA-0051	R-51	RACK BODY	2008	ISUZU	NQR	JALE5W16187900341	K-47885
RA-0052	R-52	RACK BODY	2011	ISUZU	NQR	JALE5J168B7901822	K82656
RA-0053	R-53	RACK BODY	2015	ISUZU	NRR	JALE5W163F7301566	L22274
RAMP							
RT-0002	RT-2	RAMP TRUCK	1998	ISUZU	NPR	JALC4BIKIW7002965	J-93069
RT-0003	RT-3	RAMP TRUCK	2004	ISUZU	FRR	JALF5C13547700923	K14691
THERMO							
TH-0002	TP-2	THERMO PAINT TRUCK	2004	STERLING	ACTERRA	2FZACGAK34AM18439	36101A
TH-0004	TP-4	THERMO PAINT TRUCK	2016	INTERNATIO	4300	1HTMMMMN2GH210116	57609A
RACK BODY HYDRO-BLAST							
WT-0001	WT-1	HYDRO-BLAST TRUCK	2012	PETERBILT	320	3BPZL70X7DF189824	52585A
WT-0004	WB-4	HYDROBLAST TRUCK	2016	PETERBILT	320	3BPZX7EX9GF103009	57997A
WT-0005	WB-5	HYDROBLAST TRUCK	2018	PETERBILT	M520	3BPDX7EX1JF196657	61879A
WT-0006	WB-6	HYDROBLAST TRUCK	2019	PETERBILT	M520	3BPDX7EX3KF104160	63493A

SAFETY MARKING, INC.
255 Hancock Avenue
Bridgeport, CT 06605

REFERENCES

City of New Haven
200 Orange Street
New Haven, CT 06510
Contact: Bruce Fischer
203.946-8073

City of Stamford
888 Washington Blvd
Stamford, CT 06904
Contact: Anthony Carolluzzi
203.977-5759

City of Danbury
155 Deer Hill Avenue
Danbury, CT 06810
Contact: Abduhl Mohamed
203.948-6952

City of Manchester
Highway Division/POB 191
Manchester, CT 06045
Contact: Jim Mayer
860.647-3151

City of Hartford
525 Main Street
Hartford, CT 06103
Contact: Raj Mathur
860.522-4888

Town of Fairfield
One Rod Highway
Fairfield, CT 06824
Contact: Charlotte Lee
203.256-3177

City of Bridgeport
999 Broad Street
Bridgeport, CT 06605
Contact: Junior
203.395-6510

City of West Hartford
50 South Hartford
Hartford, CT 06110
Contact: Greg Sommer
860.561-7543

Town of Westport
110 Myrtle Avenue
Westport, CT 06880
Contact: Scott Sullivan
203.341-5085

Town of Greenwich
101 Field Point Road
Greenwich, CT 06830
Contact: Sean Turpin
203.622-7881

Supplier: **Safety Marking, Inc.**

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.

Supplier: **Safety Marking, Inc.**

CRPC #681

CAPITOL REGION PURCHASING COUNCIL
INVITATION FOR BID
TRAFFIC GUIDELINES

BID SPECIFICATION

I. MODIFICATIONS TO GENERAL TERMS AND CONDITIONS

INTENT

The Capitol Region Purchasing Council, on behalf of certain CRPC members, requests bids for TRAFFIC GUIDELINES for the contract period of January 1, 2019 through December 31, 2019. Each respective CRPC member will make its own awards and payments according to the terms and conditions set forth in these specifications. A written order from each CRPC member will be required before any work is started, and shall contain information concerning the quantity and type of traffic guidelines required, the desired materials to be used, the preferred work schedule, and any other relevant data.

In general, the specifications in the federal government's Manual on Uniform Traffic Control Devices (MUTCD) 2003 edition, as amended and the State of Connecticut Department of Transportation's Standard Specifications for Roads, Bridges and Incidental Construction (Form 816), as amended will apply. A copy of Form 816 may be downloaded off of the CONNDOT website at http://www.ct.gov/dot/cwp/view.asp?a=1385&Q=506628&PM=1 . In general, specifications for pavement marking tape found in ASTM D4505 will apply.

BID AWARD

A bid award shall be made by each respective CRPC member to the lowest responsible bidder(s). 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 CRPC member 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. Note that service and scheduling shall be major factors in awarding the contract, and shall consist of the contractor's availability to return to do small jobs during the contract period, as well as to perform work during off-hours (e.g., nights, weekends). Note that the CRPC members reserve the right to make their awards on a section-by-section basis in order to take advantage of the most favorable bid price for each item.

ESTIMATED QUANTITIES

The quantities specified herein are estimates only and have been provided for the purpose of

competitive bidding. Actual quantities will be contingent upon the total number of CRPC members which decide to make an award off this bid (as participation is voluntary), the needs of the using departments of the various CRPC members and changes in State Traffic Commission regulations. Furthermore, budget reductions may make it impossible for a CRPC member to undertake some or all of the proposed work. The determination of the type of lines to be used will be made by the individual CRPC member under the guidance of the State Traffic Commission.

INSURANCE

All respondents are required to submit, **with their bids**, a copy of the cover sheet from their insurance policy(ies) (or an equivalent piece of documentation) which demonstrates the firm's current coverages and limits for General Liability, Automobile Liability and Worker's Compensation Insurance.

BID SURETY

A bid bond is not required for this bid. A performance bond in the amount of one hundred percent (100%) of each Purchase Order may be required of the successful bidder.

II. TECHNICAL SPECIFICATION, ADDITIONAL REQUIREMENTS

1. **GENERAL DESCRIPTION OF WORK TO BE ACCOMPLISHED**

The awarded contractor(s) shall be responsible for providing high quality PAVEMENT MARKINGS services in accordance with the attached specifications. All work performed shall be done in conformance with applicable sections of the Manual of Uniform Traffic Controls (MUTCD) 2003 edition as amended and the State of Connecticut Department of Transportation's Standard Specifications for Roads, Bridges and Incidental Construction Form 816, as amended. Pavement Marking Tape shall conform with the ASTM D4505 standard.

For painted markings, the drop-on method of application shall be used, consisting of a combination of pigmented binder and glass spheres, which will provide a reflective surface marking on highway pavements. All paint used must be compliant with applicable federal, state or local environmental regulations.

Pavement marking tape shall comply with the specifications in ASTM D4505 of latest issue.

2. **SCOPE OF SERVICES**

All-inclusive bids (materials and installation of traffic guidelines) shall be submitted covering labor, equipment and materials for the items listed in the bid response. Such work shall include related clean-up, control of location points, protection of the line, and traffic control, as described below.

a. Clean Up:

Upon suspension or completion of the work, the Contractor shall remove all materials, equipment and rubbish and shall leave the premises in a neat and orderly condition.

b. Control of Location Points:

All layout work shall be the responsibility of the Contractor and the Contractor shall also be responsible for establishing location points of solid or center lines in accordance with State Traffic Commission Regulations. Any special situations shall be referred to the Supervisor for instructions. Guidelines shall meet all pedestrian crosswalk lines and not cross them. At intersections which do not have pedestrian crosswalks marked, the Contractor shall stop his markings at points designated or as ordered by the Supervisor.

c. Protection of the Line:
The Contractor shall furnish all guards or forms of protection of approved design to protect the markings from all traffic until it is hard dry to no pickup and suitable for use. The Contractor shall use every precaution to protect newly painted lines from tracking, and to prevent spilling of paint on the pavement. To supplement the line guards, should the Supervisor deem it necessary, the services of a uniformed town police officer or officers will be requested from the Police Department.

d. Traffic Control Work:
As markings are to be applied on heavily traveled streets, the proper handling of traffic is a major consideration. Traffic shall not be impeded and work shall be carried out in such locations and at such times and sections as the Supervisor may direct. All work must be done with a minimum of inconvenience to the general public. In areas of high traffic volume, the work may have to be done during off-peak hours, including evening/weekend hours.

3. **DEFINITIONS: CONTRACTORS TO SUBMIT PLANS, ETC.**
Traffic Supervisor, or Supervisor, as used herein, shall mean the Traffic Authority of any CRPC member or the authorized agent.

CRPC member as used herein shall mean all of the CRPC members party hereto or any single CRPC member included, depending upon the proper meaning of the article or clause.

When requested to do so by the Traffic Supervisor, the Contractor shall furnish the CRPC member with a plan or a written statement of methods, which the Contractor proposes to use, and said plans or methods shall be approved by the Supervisor before any work proceeds.

4. **EMPLOYEES**
The Contractor shall employ only competent, faithful and skilled persons to do the work. Whenever the Supervisor shall notify the Contractor that any person on the job is, in his opinion, incompetent or unfaithful, such person shall be discharged promptly from the work and shall not be employed again on the job.

5. **EXPERIENCE**
Each respondent must submit satisfactory evidence as part of their bid proposal demonstrating experience painting traffic lines on public roads and knowledge of regulations established by the State Traffic Commission, including the most recent regulations. The Contractor shall further guarantee that any employee operating traffic line marking machinery is experienced in operating a machine of this type and competent in its use.

A list of at least three (3) municipalities/public agencies where this type of work has been performed during the past two (2) years shall be furnished, including contact persons and phone numbers. (See the bid specific Information Sheet.)

6. **TIME OF STARTING AND COMPLETION**
The Contractor may be requested to start work within seven (7) days of receipt of order, depending on the agreement with the Supervisor of any single CRPC member awarding such contract. All work under any contract awarded as a result of this bid shall be completed within thirty (30) days of receipt of the order unless a specific agreement with a particular Supervisor provides for a later completion date. If physical conditions prevent adherence to this time schedule, the Supervisor of the particular CRPC member shall make arrangements

necessary for performance of the work. It is understood that a CRPC member may take appropriate action if an unreasonable delay is encountered beyond the thirty (30) day period mentioned above.

It is also understood that should delays occur, the Contractor will prioritize rescheduling efforts to expedite completion and minimize CRPC member exposure from unmarked roadways.

Note: Equipment breakdown shall not be considered a valid cause for a time extension request. The contractor shall be expected to have backup equipment available.

7. **LIQUIDATED DAMAGES**

The Contractor agrees that the municipality may retain the sum of One Hundred Dollars ($100) from the amount of the compensation to be paid to the Contractor for each day in excess of the number of working days stipulated in the Specifications that work remains incomplete. This amount is agreed upon as the proper measure of liquidated damages which the municipality will sustain per day by failure of the Contractor to complete the work within the number of working days stipulated. This is not to be construed in any sense as a penalty. **A CRPC member may, at its discretion, require a performance bond of 100% of the value of the contract to ensure the prompt and satisfactory completion of the work.**

8. **DEFINITION OF WORKING DAYS**

Working days are hereby defined as follows: A calendar day of eight (8) working hours; holidays and periods of inclement weather during which no work is done are excluded. **Note that many of the participating CRPC members will require some or all of their work to be done during off hours (e.g., nights, weekends). Accordingly, respondents are asked to verify their availability to do work at such time for any requesting community on the bid's Information Sheet.**

9. **PAVEMENTS TO BE MARKED**

Markings shall be applied mainly on sheet asphalt and bituminous concrete pavements.

10. **MATERIALS**

All materials shall be in accordance with the State of Connecticut, Department of Transportation, Standard Specifications for Roads, Bridges and Incidental Construction Form 816, as amended unless otherwise noted:

Paint:

All Paint shall:

a. Meet applicable requirements for:
   Waterborne Paint - Section M.07.20
   Hot-Applied Waterborne Paint – Section M.07.21
   Oil-Based paint - DOT Form 814a, Section M.07.20, 15 Minute Dry Pavement Marking Paint, (attached).
b. Be compliant with all federal, state and local environmental regulations.
c. Be highly resistant to traffic wear and the effects of weathering.

It should be noted that Waterborne, Hot Applied Waterborne and Oil-Based Paint options are available as part of this bidding effort to meet the needs and preferences of all participating CRPC members. **Respondents are asked to include, as part of their response, a manufacturer spec sheet for the paint that will be**

used to perform the work.

Glass Beads:
Standard reflectorizing glass beads, in accordance with Section M.07.30, are required for application of traffic paint to produce a reflective surface. The glass beads shall be manufactured of glass of a composition designed to be highly resistant to traffic wear and the effects of weathering.

Thermoplastic Material:
Some CRPC members may require the use of thermoplastic material in lieu of paint for certain detail work in specific locations. Material used for this purpose and the method of application shall have been proven to be satisfactory. **Respondents are asked to include, as part of their response, a manufacturer spec sheet for the material that will be used to perform the work.**

Epoxy Resin Pavement Markings:
CRPC members may require epoxy resin pavement markings. To this end, vendors shall furnish and install epoxy resin pavement markings in accordance with Section 12.10 - Epoxy Resin Pavement Markings, Symbols, and Legends and Section M.07.22 - Epoxy Resin Pavement Markings. **Respondents are asked to include, as part of their response, a manufacturer spec sheet for the material that will be used to perform the work.**

Pavement Marking Tape
CRPC members may require permanent pavement marking tape. To this end, vendors shall furnish, install, and remove pavement markings in accordance with ASTM D4505 of latest issue. **Respondents are asked to include, as part of their response, a manufacturer spec sheet for the material that will be used to perform the work.**

11. METHOD OF CONSTRUCTION FOR PAINT

Equipment:
On the information sheet, each respondent shall note all equipment that he/she owns and will use in performing this contract. The respondent shall also indicate any other machines available to him/her through lease, etc. Hot application may be required for painting lines, either white, yellow or both.

Procedure
The surface upon which marking materials are to be applied shall be completely dry and free from moisture and dirt. Sufficient time must elapse after any rain or heavy dew to allow the surface to become thoroughly dry prior to placing any reflective material. Marking material shall be applied only under favorable and suitable conditions, and no marking material shall be placed unless the air or pavement temperature is 45° or above. The Contractor will be held liable for any marking material applied which does not stand up to normal traffic uses for a period of ninety (90) days.

The pigmented binder shall be applied by a self-propelled, motorized, paint spray machine capable of supplying traffic marking paints. It shall be capable of painting double lines at one time and simultaneously depositing reflecting glass beads on both lines in equal volume.

The painting shall be accomplished in a workmanlike manner, with lines well defined. The binder shall be applied to a wet film thickness of .015 inches (unless otherwise

specified by a municipality) and at a rate of not less than one hundred (100) square feet and not more than one hundred ten (110) square feet of surface per gallon of binder.

The glass spheres shall be applied immediately to the pigmented binder following application at a rate of six (6) pounds per gallon of binder.

The glass spheres shall be evenly distributed over the entire width of the line. It is intended that the pigmented binder will bind the glass spheres in such a manner that it will produce maximum adhesion, refraction and reflection.

Maintenance

The Contractor shall keep and maintain their work in good repair for a period of ninety (90) days from the date of completion of the work on the respective streets. It is agreed and understood that the Contractor will at any time during this period, upon notification in writing from the Supervisor, and without expense to the CRPC member, immediately execute all repairs which may be necessary, as determined by said Supervisor by reason of defective workmanship or pavement/roadway use.

12. **PAVEMENT PATCHES**

The Contractor will not be held liable for markings applied over utility cuts in the pavement or for any cuts in the pavement after line has been marked.

13. **PAVEMENT MARKINGS**

A. Pavement Lines

Paint shall be applied by truck and include centerlines, lane lines and shoulder lines. Pavement Marking Tape shall be precoated, on its bottom side, with a pressure-sensitive adhesive for adherence to HMA or PCC surfaces. Pavement Marking Tape shall be of the specified dimension and shape with clean-cut, well-defined edges, of good appearance, and free of cracks or other defects.

Unless otherwise noted, the price shall be per **linear foot** (lf) of paint/tape applied to the pavement.

Centerlines:

Shall be four (4) inches wide (single or double), white or yellow lines, and may include centerline tails on stop bars. For painted lines, the drop-on method of application shall be used, consisting of a combination of pigmented binder and glass spheres which, when properly applied, will provide a retrodirective reflecting marking for horizontal highway surfaces. Single and double line bids shall be per linear foot.

Skip Lines:

Shall be four (4) inches wide; white lines, consisting of a fifteen (15) foot segment and thirty (30) foot skip, except as directed by the Supervisor. On a street with more than one guideline, the sections shall line up approximately across the street. Enfield, Manchester, Rocky Hill, West Hartford and Windsor included requirements for a ten (10) foot segment and a thirty (30) foot skip. Note: this item shall be measured and priced per linear foot; only sections of pavement where markings are actually applied (not bare pavement) shall be included in the payment calculation.

Pavement Lane/Edge Lines:

Shall be four (4) inches; white or yellow lines, as directed by each municipality. This

category is intended to cover the varied needs of the participating towns. Work covered hereunder may therefore include edge lines, shoulder lines, median lines, etc.

B. Painted Legends, Arrows and Markings

Paint shall be applied by a hand-striping machine. Pavement Marking Tape shall be precoated, on its bottom side, with a pressure-sensitive adhesive for adherence to HMA or PCC surfaces. Pavement Marking Tape shall be of the specified dimension and shape with clean-cut, well-defined edges, of good appearance, and free of cracks or other defects.

Markings shall include stop bars, arrows, parking stalls, crosswalks, curbs and other miscellaneous details. Unless otherwise noted, price shall be per **square foot** applied to the pavement.

Note: Attached are the Connecticut DOT "Special Details and Typical Pavement Markings for Two–Way Highways" sheet and a CRCOG-generated "Supplemental Pavement Marking Special Details" sheet that was created for illustrative purposes only. As the latter document states, the awarded Contractor(s) shall consult with authorized municipal representatives to verify/finalize municipality specific dimensions and stenciling requirements.

Stop Bar Lines:
Shall be a minimum twelve (12) inches wide; solid white lines, normally four (4) feet in advance of and parallel to the nearest crosswalk line.

Arrows:
On public streets, arrows shall be white and to dimensions shown in the attached detail. Off streets, arrows shall be white unless otherwise directed.

Parking Stall Lines and Parallel Parking T-Bars:
Lines shall be four (4) inches wide, solid white lines or the color directed by the municipality.

Crosswalks:
Crosswalks utilizing parallel lines shall have a minimum six (6) inches wide white line to a maximum twenty-four (24) inches wide white line spaced not less than six (6) feet apart. Cross-hatching may be required in some cases.

An alternate crosswalk specification for the State of Connecticut Department of Transportation Standard Crosswalk requires 16" wide bars or 24" wide bars at School/Elderly crossings (see attached diagram). These crosswalk specifications are optional and are **not mandated** by state law.

Miscellaneous Detail Work:
This category is intended to cover a broad range of detail work, including, but not limited to railroad crossings, bicycle path diamonds, sharrows, stenciling, speed bumps, crosshatching, and fire lanes.

Railroad Crossings
At grade railroad crossings shall be painted with reflectorized white marking paint/tape. They shall consist of an X, the letters RR and transverse lines (stop bars) as shown on the attached detail.

Stenciling Work
Shall include painting of numbers, words and symbols in the color directed by the

municipality.

Curbs:
Shall be painted yellow or the color directed by the municipality. Note that curb work shall be priced by the **linear foot**.

Handicapped Stencils:
To be priced per each.

14. **REMOVAL OF MARKINGS**

The removal of painted or pavement marking tape markings shall be performed in accordance with Section 12.11 of the State of Connecticut Department of Transportation's Standard Specifications for Roads, Bridges and Incidental Construction, Form 816, as amended.

15. **BASIS FOR PAYMENT**

In estimating the length of centerlines, CRPC members have included the length of gaps in broken lines. Billing shall be figured for these total lengths, but it is not intended that payment will be made for the gaps in which no paint/tape is applied. Quotations should, therefore, take into consideration the fact that a certain portion of the broken line lengths will not require paint/tape. The Contractor will measure for payment the actual footage of other markings applied, subject to review by the Supervisor.

In general, paint applied by truck mounted machine will be paid for at the unit price per linear foot (LF) and paint applied by hand machine will be paid for at the unit price per square foot (SF) for the type of paint applied.

16. **VENDOR PERFORMANCE/LIABILITY FOR SERVICE FAILURES**

Failure of any successful bidder to adhere to the 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 municipalities 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 provide the contracted services within the time specified or if the services are rejected by the municipality, the municipality may obtain such services 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.

Supplier: **Safety Marking, Inc.**

CRPC #681

CAPITOL REGION PURCHASING COUNCIL
INVITATION FOR BID
TRAFFIC GUIDELINES

INFORMATION SHEET

1. **Number of years the bidder has been in business:**

2. **The following is a list of the equipment OWNED by the bidder which will be available for the performance of any contract resulting from the bid:**

Truck No.	Year/Description	Gross Vehicle Weight

3. **The following is a list of equipment available to the bidder through LEASE, LOAN or other arrangements that will be available for the performance of any contract resulting from the bid:**

Truck No.	Year/Description	Gross Vehicle Weight

4. **References: During the last two years, the bidder performed road-marking work for the following public bodies (federal, State, municipal, etc.):**

Public Entity	Contact Person	Address	Telephone #

5. **Has the bidder ever failed to complete awarded work? If so, state where and why.**

6. **Does the bidder plan to sublet any part of the work? If so, give details:**

7. **Paint Analysis:**

8. **Paint Manufacturer: csumner@safetymarking.net**
   (Please attach manufacturer specification sheets for all paint and materials (epoxy, thermosplastic) that will be used to perform work under resulting contracts.

9. **Is the bidder available to work off-hours, including night hours, if so requested by a/the participating municipality (ies)?**

   ☐ **YES**
   ☐ **NO**

   Other scheduling limitations?

Supplier: **Safety Marking, Inc.**

Insurance Exhibit (West Hartford)

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

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

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

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

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

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

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

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

Mark Kelly
Duly Authorized

12/03/2018
Date

Mark Kelly
(Print Name Here)

Supplier: **Safety Marking, Inc.**

GENERAL VENDOR INFORMATION

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

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

COMPANY

SAFETY MARKING, INC.

REPRESENTATIVE

Mark Kelly

POSITION

President

ADDRESS

255 Hancock Avenue

Bridgeport, CT

(ZIP)

06605

TELEPHONE #

203.333-6870

FAX #

203.333-9099

TAX ID #
06-1267005

E-MAIL ADDRESS

mkelly@safetymarking.net

SIGNATURE

Mark Kelly

PAYMENT TERMS: **Net** % **30** Days

DATE: **12/03/2018**