State of Maine

Master Agreement

Effective Date: 04/04/19  
Expiration Date: 04/30/21

Master Agreement Description: PLY-KRETE ELASTOMERIC CONCRETE

Buyer Information
William Allen  
207-624-7871  
ext. NULL  
WJE.Allen@maine.gov

Issuer Information
Sharon Krechkin  
207-624-3038  
ext.  
sharon.krechkin@maine.gov

Requestor Information
Sharon Krechkin  
207-624-3038  
ext.  
sharon.krechkin@maine.gov

Agreement Reporting Categories

Reason For Modification: Extend for one year at current pricing

Authorized Departments
17A TRANSPORTATION

Vendor Information

Vendor Line #: 1

Vendor ID
VC0000230215

Vendor Name
HD SUPPLY CONSTRUCTION SUPPLY LTD

Vendor Address Information
3400 CUMBERLAND BLVD SE

ATLANTA, GA 30339

US
Vendor Contact Information
Ian Wilson  
207-622-0821  ext.  
ian.wilson@hdsupply.com

Commodity Information

Vendor Line #: 1
Vendor Name: HD SUPPLY CONSTRUCTION SUPPLY LTD
Commodity Line #: 1
Commodity Code: 96712
Commodity Description: PLY-KRETE ELASTOMERIC CONCRETE
Commodity Specifications:
Commodity Extended Description:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>UOM</th>
<th>Unit Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00000</td>
<td></td>
<td>0.000000</td>
</tr>
</tbody>
</table>

Delivery Days  
Free On Board  
0

Contract Amount  
Service Start Date  
Service End Date  
0.00  
0

Catalog Name  
Discount  
0.0000  

Discount Start Date  
Discount End Date  
04/04/19  
04/30/21

Please see authorized signatures displayed on the next page
Each signatory below represents that the person has the requisite authority to enter into this Contract. The parties sign and cause this Contract to be executed.

State of Maine - Department of Administrative and Financial Services

[Signature]
Jaime C. Schorr, Chief Procurement Officer

and

HD SUPPLY CONSTRUCTION SUPPLY LTD

[Signature]
Ian Wilson, Assistant Branch Manager
EXTENSION OF MASTER AGREEMENT CONTRACT

Commodity Item: Ply-Krete Elastomeric Concrete

Contractor: HD Supply Construction Supply LTD

Mater Agreement Competitive Bid RFQ: 17A 190313-267

Contract Period Extended To: 04/30/2021

Extended Contract Pricing: Extend at current pricing

Extension Clause: The State reserves the right to extend this contract for a period of one year, with the consent of the contractor.

Agreement to Extend Contract:
In accordance with the above referenced Extension Clause, the undersigned agrees to continue in effect said Contract No. MA 190404*139 through April 30, 2021 with all terms, conditions remaining as shown in the original contract.

Dollar value the vendor has recorded that State of Maine has spent on this contract from 04/04/19 to present: $ 27938.00

Agreement to extend Master Agreement 18P – 19040400000000000139 authorized by:

State of Maine – Department of Administrative and Financial Services

Jaime C. Schorr, Chief Procurement Officer

And

HD Supply Construction Supply LTD

Ian Wilson, Assistant Branch Manager
COMMODITY ITEM: PLY-KRETE ELASTOMERIC CONCRETE

CONTRACT PERIOD: Through April 30, 2020. The State of Maine with vendor approval can opt to issue up to two (2) one (1) year extensions. First extension through April 30, 2021.

VENDOR CONTACT PERSON: The contact person will help consumers place orders, inquire about orders that have not been delivered, all shipping issues, quality issues, and any issues pertaining to this Master Agreement. All orders not submitted through a DO will be sent through the contractor’s contact person. The contact person will be: Ian Wilson Phone: 207-622-0821 Email: ian.wilson@hdsupply.com

EXTENSION OF CONTRACT: The Director of Procurement Services may, with the consent of the contractor extend the Contract period beyond the indicated expiration date.

CANCELLATION OF CONTRACT: The Division of Procurement Services reserves the right to cancel a contract with a thirty-day written notice OR cancel immediately if the contractor does not conform to terms and conditions and specifications of contract.

PRICES: Pricing will be FOB destination to all MaineDOT facilities. Prices are to remain firm for the duration of the contract.

QUANTITIES: It is understood and agreed that the contract will cover the actual quantities required by State Agency over the length of the contract.

ORDERING PROCEDURE: Delivery orders (DO) will be created in AdvantageME for all orders over $5000.00. If a DO is used, the DO will be e-mailed to the email address set up in AdvantageME by the Vendor as a .pdf file. Orders less than $5000.00 can be ordered using a P-Card.

INVOICES and PAYMENT: The Contractor shall submit an itemized bill to the Department for materials following delivery for approval and payment. Invoices shall minimally include the following: Contractor name, address & Contract Number 18P 190404-139, Invoice Date & Number

QUARTERLY REPORT: The Division of Procurement Services requires a quarterly report of sales be faxed to 207-287-6578 within 30 days of the end of each calendar quarter. It will be the responsibility of the vendor to produce a quarterly report. The report must include the dollar value of goods purchased, broken down by Department as well as the total dollar value of purchases made by all Departments.

PROCUREMENT CARD: State policy requires vendors to accept the State of Maine Procurement Card (P-Card) as a form of payment, with very rare exceptions. Your company is required to accept these cards. The pricing offered to the State of Maine shall be the final cost to the State of Maine regardless of payment method. No surcharge or other compensation will be allowed. The State of Maine reserves the right to reject your bid if you are unwilling to accept this condition.
Specifications

Fast setting, high strength joint seal manufactured by Polyset Company., or equivalent, shall conform to the following properties:

<table>
<thead>
<tr>
<th>APPEARANCE@77deg F</th>
<th>Part “A”</th>
<th>Part “B”</th>
<th>Mixed</th>
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</thead>
<tbody>
<tr>
<td>Packaging</td>
<td>1 can</td>
<td>1 can</td>
<td>w/1 bag of aggregate</td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
<td>Lt. Brown</td>
<td>Black</td>
</tr>
<tr>
<td>Viscosity, cps</td>
<td>550 +/- 25</td>
<td>250 +/- 50</td>
<td>-</td>
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<td>Wt./gal., lb</td>
<td>8.1 +/- 0.1</td>
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Ratio and Cure:

<table>
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<tr>
<th>Mix Ratio</th>
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<tr>
<td>Initial Cure</td>
<td>2 hr @ 77 deg F</td>
<td>With Supplied Agg.</td>
<td>-</td>
</tr>
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Properties with Aggregate (aggregate type affects results):

| Compressive, psi | 3000 min. | ASTM C-579 |
| Britteness +/- 1 ft-lb | 7 ft-lb min. | Ball Drop |
| Shore D Hardness | 62 Avg. | ASTM D-2240 |

Properties with Binder Only

| Percent Elongation | 170 +/- 25 | ASTM D-638 |
| Tensile Strength, psi | 1650 +/- 200 | ASTM D-638 |
| Tear Strength, pli   | 150 +/- 25 | ASTM D-624 |
| Shore D Hardness      | 45 +/- 5   | ASTM D-2240 |
| Bond Strength (to wet concrete) | 450 psi | Tex 618-J |

The product shall be delivered on pallets. The composition of each pallet will depend upon the requested container size for the liquid. The liquid is available in two sizes: Standard Kits (0.52 cu. Ft.) and 5 gallon buckets. 55 gallon drums are available upon request. A price shall be established for each of these units, which will also include delivery.
<table>
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<tr>
<th>SUPPLIER PART NUMBER</th>
<th>ITEM DESCRIPTION</th>
<th>EXTENDED DESCRIPTION</th>
<th>UNIT OF MEASURE</th>
<th>LIST PRICE</th>
<th>DELIVERY DAYS</th>
</tr>
</thead>
<tbody>
<tr>
<td>261160</td>
<td>Ply-Krete FS unit yields 0.52 cu. Ft/kit</td>
<td>Small Kit-1 gal A + ½ gal B &amp; 1 bag aggregate, Delivered FOB Destination Statewide</td>
<td>ea</td>
<td>$81.25</td>
<td>4</td>
</tr>
<tr>
<td>261162</td>
<td>Ply-Krete FS unit yields 5.2 cu. Ft/kit</td>
<td>5 gal Pails-2 pails of A + 1 pail B &amp; 10 bags aggregate, Delivered FOB Destination Statewide</td>
<td>ea</td>
<td>$625.00</td>
<td>4</td>
</tr>
<tr>
<td>261161</td>
<td>Ply-Krete FS unit yields 52 cu. Ft/kit</td>
<td>55 gal Drums-2 drums A + 1 drum B &amp; 100 bags aggregate, Delivered FOB Destination Statewide</td>
<td>ea</td>
<td>$5,775.00</td>
<td>4</td>
</tr>
<tr>
<td>PC2609</td>
<td>Ply Primer</td>
<td>1 ½ -gal., Delivered FOB Destination Statewide</td>
<td>ea</td>
<td>$104.50</td>
<td>4</td>
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Ian Wilson
Assistant Branch Manager

4/23/2020
State of Maine

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Contract Amount: $0.00

Catalog Name: Plykrete

Discount: 0.0000%

Discount Start Date: 04/04/19
Discount End Date: 04/30/20
COMMODITY ITEM: PLY-KRETE ELASTOMERIC CONCRETE

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1. **DEFINITIONS**: The following definitions are applicable to these standard terms and conditions:
   a. The term “Buyer” or “State” shall refer to the Government of the State of Maine or a person representing the Government of the State of Maine.
   b. The term “Department” or “DAFS” shall refer to the State of Maine Department of Administrative and Financial Services.
   c. The term “Bureau” or “BGS” shall refer to the State of Maine Bureau of General Services.
   d. The term “Division” shall refer to the State of Maine Division of Purchases.
   e. The term “Contractor”, “Vendor”, or “Provider” shall refer to the organization that is providing goods and/or services through the contract to which these standard terms and conditions have been attached and incorporated.
   f. The term “Contract” or “Agreement” shall refer to the contract document to which these standard terms and conditions apply, taking the format of a Buyer Purchase Order (BPO) or Master Agreement (MA) or other contractual document that is mutually agreed upon between the State and the Contractor.

2. **WARRANTY**: The Contractor warrants the following:
   a. That all goods and services to be supplied by it under this Contract are fit and sufficient for the purpose intended, and
   b. That all goods and services covered by this Contract will conform to the specifications, drawing samples, symbols or other description specified by the Division, and
   c. That such articles are merchantable, good quality, and free from defects whether patent or latent in material and workmanship, and
   d. That all workmanship, materials, and articles to be provided are of the best grade and quality, and
   e. That it has good and clear title to all articles to be supplied by it and the same are free and clear from all liens, encumbrances and security interest.

Neither the final certificate of payment nor any provision herein, nor partial nor entire use of the articles provided shall constitute an acceptance of work not done in accordance with this agreement or relieve the Contractor liability in respect of any warranties or responsibility for faulty material or workmanship. The Contractor shall remedy any defects in the work and pay any damage to other work resulting therefrom, which shall appear within one year from the date of final acceptance of the work provided hereunder. The Division of Purchases shall give written notice of observed defects with reasonable promptness.

3. **TAXES**: Contractor agrees that, unless otherwise indicated in the order, the prices herein do not include federal, state, or local sales or use tax from which an exemption is available for purposes of this order. Contractor agrees to accept and use tax exemption certificates when supplied by the Division as applicable. In case it shall ever be determined that any tax included in the prices herein was not required to be paid by Contractor, Contractor agrees to notify the Division and to make prompt application for the refund thereof, to take all proper steps to procure the same and when received to pay the same to the Division.

4. **PACKING AND SHIPMENT**: Deliveries shall be made as specified without charge for boxing, carting, or storage, unless otherwise specified. Articles shall be suitably packed to secure lowest
transportation cost and to conform to the requirements of common carriers and any applicable specifications. Order numbers and symbols must be plainly marked on all invoices, packages, bills of lading, and shipping orders. Bill of lading should accompany each invoice. Count or weight shall be final and conclusive on shipments not accompanied by packing lists.

5. DELIVERY: Delivery should be strictly in accordance with delivery schedule. If Contractor's deliveries fail to meet such schedule, the Division, without limiting its other remedies, may direct expedited routing and the difference between the expedited routing and the order routing costs shall be paid by the Contractor. Articles fabricated beyond the Division’s releases are at Contractor’s risk. Contractor shall not make material commitments or production arrangements in excess of the amount or in advance of the time necessary to meet delivery schedule, and, unless otherwise specified herein, no deliveries shall be made in advance of the Division’s delivery schedule. Neither party shall be liable for excess costs of deliveries or defaults due to the causes beyond its control and without its fault or negligence, provided, however, that when the Contractor has reason to believe that the deliveries will not be made as scheduled, written notice setting forth the cause of the anticipated delay will be given immediately to the Division. If the Contractor’s delay or default is caused by the delay or default of a subcontractor, such delay or default shall be excusable only if it arose out of causes beyond the control of both Contractor and subcontractor and without fault of negligence or either of them and the articles or services to be furnished were not obtainable from other sources in sufficient time to permit Contractor to meet the required delivery schedule.

6. FORCE MAJEURE: The State may, at its discretion, excuse the performance of an obligation by a party under this Agreement in the event that performance of that obligation by that party is prevented by an act of God, act of war, riot, fire, explosion, flood or other catastrophe, sabotage, severe shortage of fuel, power or raw materials, change in law, court order, national defense requirement, or strike or labor dispute, provided that any such event and the delay caused thereby is beyond the control of, and could not reasonably be avoided by, that party. The State may, at its discretion, extend the time period for performance of the obligation excused under this section by the period of the excused delay together with a reasonable period to reinstate compliance with the terms of this Agreement.

7. INSPECTION: All articles and work will be subject to final inspection and approval after delivery, notwithstanding prior payment, it being expressly agreed that payment will not constitute final acceptance. The Division of Purchases, at its option, may either reject any article or work not in conformity with the requirements and terms of this order, or re-work the same at Contractor’s expense. The Division may reject the entire shipment where it consists of a quantity of similar articles and sample inspection discloses that ten (10%) percent of the articles inspected are defective, unless Contractor agrees to reimburse the Division for the cost of a complete inspection of the articles included in such shipment. Rejected material may be returned at Contractor’s risk and expense at the full invoice price plus applicable incoming transportation charges, if any. No replacement of defective articles of work shall be made unless specified by the Division.

8. INVOICE: The original and duplicate invoices covering each and every shipment made against this order showing Contract number, Vendor number, and other essential particulars, must be forwarded promptly to the ordering agency concerned by the Vendor to whom the order is issued. Delays in receiving invoice and also errors and omissions on statements will be considered just cause for withholding settlement without losing discount privileges. All accounts are to be carried in the name of the agency or institution receiving the goods, and not in the name of the Division of Purchases.
9. **ALTERATIONS**: The Division reserves the right to increase or decrease all or any portion of the work and the articles required by the bidding documents or this agreements, or to eliminate all or any portion of such work or articles or to change delivery date hereon without invalidating this Agreement. All such alterations shall be in writing. If any such alterations are made, the contract amount or amounts shall be adjusted accordingly. In no event shall Contractor fail or refuse to continue the performance of the work in providing of articles under this Agreement because of the inability of the parties to agree on an adjustment or adjustments.

10. **TERMINATION**: The Division may terminate the whole or any part of this Agreement in any one of the following circumstances:
   a. The Contractor fails to make delivery of articles, or to perform services within the time or times specified herein, or
   b. If Contractor fails to deliver specified materials or services, or
   c. If Contractor fails to perform any of the provisions of this Agreement, or
   d. If Contractor so fails to make progress as to endanger the performance of this Agreement in accordance with its terms, or
   e. If Contractor is adjudged bankrupt, or if it makes a general assignment for the benefit of its creditors or if a receiver is appointed on account of its insolvency, or
   f. Whenever for any reason the State shall determine that such termination is in the best interest of the State to do so.

In the event that the Division terminates this Agreement in whole or in part, pursuant to this paragraph with the exception of 8(f), the Division may procure (articles and services similar to those so terminated) upon such terms and in such manner as the Division deems appropriate, and Contractor shall be liable to the Division for any excess cost of such similar articles or services.

11. **NON-APPROPRIATION**: Notwithstanding any other provision of this Agreement, if the State does not receive sufficient funds to fund this Agreement and other obligations of the State, if funds are de-appropriated, or if the State does not receive legal authority to expend funds from the Maine State Legislature or Maine courts, then the State is not obligated to make payment under this Agreement.

12. **COMPLIANCE WITH APPLICABLE LAWS**: Contractor agrees that, in the performance hereof, it will comply with applicable laws, including, but not limited to statutes, rules, regulations or orders of the United States Government or of any state or political subdivision(s) thereof, and the same shall be deemed incorporated herein by reference. Awarding agency requirements and regulations pertaining to copyrights and rights in data. Access by the grantee, the subgrantee, the Federal grantor agency, the Comptroller General of the United States, or any of their duly authorized representatives to any books, documents, papers and records of the Contractor which are directly pertinent to that specific contract for the purpose of making audit, examination, excerpts, and transcriptions. Retention of all required records for three years after grantees or subgrantees make final payments and all other pending matters are closed. Compliance with all applicable standards, orders, or requirements issued under section 306 of the Clean Air Act (42 U.S.C. 1857(h), section 508 of the Clean Water Act, (33 U.S.C. 1368), Executive Order 11738, and Environmental Protection Agency regulations (40 CFR part 15). (Contracts, subcontracts, and subgrants of amounts in excess of $100,000). Mandatory standards and policies relating to energy efficiency which are

13. **INTERPRETATION:** This Agreement shall be governed by the laws of the State of Maine as to interpretation and performance.

14. **DISPUTES:** The Division will decide any and all questions which may arise as to the quality and acceptability of articles provided and installation of such articles, and as to the manner of performance and rate of progress under this Contract. The Division will decide all questions, which may arise as to the interpretation of the terms of this Agreement and the fulfillment of this Agreement on the part of the Contractor.

15. **ASSIGNMENT:** None of the sums due or to become due nor any of the work to be performed under this order shall be assigned nor shall Contractor subcontract for completed or substantially completed articles called for by this order without the Division’s prior written consent. No subcontract or transfer of agreement shall in any case release the Contractor of its obligations and liabilities under this Agreement.

16. **STATE HELD HARMLESS:** The Contractor agrees to indemnify, defend, and save harmless the State, its officers, agents, and employees from any and all claims and losses accruing or resulting to any and all contractors, subcontractors, material men, laborers and other persons, firm or corporation furnishing or supplying work, services, articles, or supplies in connection with the performance of this Agreement, and from any and all claims and losses accruing or resulting to any person, firm or corporation who may be injured or damaged by the Contractor in the performance of this Agreement.

17. **SOLICITATION:** The Contractor warrants that it has not employed or written any company or person, other than a bona fide employee working solely for the Contractor to solicit or secure this Agreement, and it has not paid, or agreed to pay any company, or person, other than a bona fide employee working solely for the Contractor any fee, commission, percentage, brokerage fee, gifts, or any other consideration, contingent upon, or resulting from the award for making this Agreement. For breach or violation of this warranty, the Division shall have the absolute right to annul this agreement or, in its discretion, to deduct from the Agreement price or consideration, or otherwise recover the full amount of such fee, commission, percentage, brokerage fee, gifts, or contingent fee.

18. **WAIVER:** The failure of the Division to insist, in any one or more instances, upon the performance of any of the terms, covenants, or conditions of this order or to exercise any right hereunder, shall not be construed as a waiver or relinquishment of the future performance of any such term, covenant, or condition or the future exercise of such right, but the obligation of Contractor with respect to such future performance shall continue in full force and effect.

19. **MATERIAL SAFETY:** All manufacturers, importers, suppliers, or distributors of hazardous chemicals doing business in this State must provide a copy of the current Material Safety Data Sheet (MSDS) for any hazardous chemical to their direct purchasers of that chemical.

20. **COMPETITION:** By accepting this Contract, Contractor agrees that no collusion or other restraint of free competitive bidding, either directly or indirectly, has occurred in connection with this award by the Division of Purchases.
21. **INTEGRATION**: All terms of this Contract are to be interpreted in such a way as to be consistent at all times with this Standard Terms and Conditions document, and this document shall take precedence over any other terms, conditions, or provisions incorporated into the Contract.
Appendix D

STATE OF MAINE
DEPARTMENT OF ADMINISTRATIVE AND FINANCIAL SERVICES
DIVISION OF PROCUREMENT SERVICES

MUNICIPALITY POLITICAL SUBDIVISION and SCHOOL DISTRICT PARTICIPATION CERTIFICATION

RFQ # 17A 190313-267
PLY-KRETE ELASTOMERIC CONCRETE

The Division of Procurement Services is committed to providing purchasing opportunities for municipalities, political subdivisions and school districts in Maine by allowing them access, through our vendors, to our contract pricing. A bidder's willingness to extend contract pricing to these entities will be taken into consideration in making awards.

Will you accept orders from political subdivisions and school districts in Maine at the prices quoted?

☑ Yes

☐ Yes, with conditions as follows:

☐ No

Name of Company: HD SUPPLY CONSTRUCTION SUPPLY LTD

Address:
23 LEIGHTON RD, AUGUSTA, ME 04330

Printed Name: IAN WILSON

Signature: [Signature]

Date: 3/18/2019
# Safety Data Sheet

## 1. Product and company identification

<table>
<thead>
<tr>
<th><strong>Product Name</strong></th>
<th>Ply-Krete® FS - Part A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Internal Code(s)</strong></td>
<td>261110; 261114; 261160; 261161; 261162; 261164; 261171</td>
</tr>
<tr>
<td><strong>Product Type</strong></td>
<td>Polyol Resin</td>
</tr>
<tr>
<td><strong>Product Use</strong></td>
<td>Two-Component Elastomeric Concrete</td>
</tr>
<tr>
<td><strong>Manufacturer/Supplier</strong></td>
<td>Polyset Company, Inc. <a href="http://www.polyset.com">www.polyset.com</a></td>
</tr>
<tr>
<td></td>
<td>P.O. Box 111</td>
</tr>
<tr>
<td></td>
<td>65 Hudson Avenue</td>
</tr>
<tr>
<td></td>
<td>Mechanicville, NY 12118</td>
</tr>
<tr>
<td></td>
<td>U.S.A.</td>
</tr>
<tr>
<td><strong>Revision Date</strong></td>
<td>29-June-2015</td>
</tr>
<tr>
<td><strong>Telephone</strong></td>
<td>For 24-Hour Emergency Response Information</td>
</tr>
<tr>
<td></td>
<td>Call ChemTel: (800) 255-3924 (U.S./Canada)</td>
</tr>
<tr>
<td></td>
<td>+1-813-248-0585 (International)</td>
</tr>
</tbody>
</table>

## 2. Hazards identification

<table>
<thead>
<tr>
<th><strong>Product Form</strong></th>
<th>Black Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OSHA/HCS status</strong></td>
<td>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</td>
</tr>
</tbody>
</table>

### Hazard Category Classification:

<table>
<thead>
<tr>
<th>Classification</th>
<th>4</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity</td>
<td>Acute Toxicity (Oral)</td>
<td></td>
</tr>
<tr>
<td>Specific Target Organ Toxicity – Single Exposure</td>
<td>Oral; Central Nervous System, Kidney</td>
<td></td>
</tr>
<tr>
<td>Specific Target Organ Toxicity – Repeated/Prolonged Exposure</td>
<td>Oral; Kidney</td>
<td></td>
</tr>
</tbody>
</table>

### GHS Pictogram(s):

![GHS Pictogram(s)](image)

**Signal Word:** WARNING

**Hazard Statement:**

| H302 | Harmful if swallowed. |
| H371 | May cause damage to organs (Central nervous system, Kidney) |
| H373 | May cause damage to organs (Kidney) through prolonged or repeated exposure. |

### Precautionary Statements:

**Prevention:**

| P264 | Wash hands and exposed skin thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P260 | Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. |

**Response:**

| P301 + P312 | IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. |
| P330         | Rinse mouth. |
| P308 + P311  | IF exposed or concerned: Call a POISON CENTER/ doctor/ physician. |
3. Composition/Information on ingredients

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>CAS number</th>
<th>WT %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene Glycol</td>
<td>111-46-6</td>
<td>4.0 – 8.0%</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>0.8 – 1.0%</td>
</tr>
</tbody>
</table>

4. First aid measures

Eye contact
In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. If eye irritation persists, consult a doctor/physician.

Skin contact
Immediately remove excess chemical and contaminated clothing; thoroughly wash contaminated skin with mild soap and water. If irritation persists after washing, seek medical attention. Thoroughly clean contaminated clothing before reuse; discard contaminated leather goods (gloves, shoes, belts, wallets, etc.).

Inhalation
Move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. When breathing is difficult, properly trained personnel may assist the affected person by administering oxygen. Keep the affected person warm and at rest. Get medical attention immediately.

Ingestion
If product is ingested, do not induce vomiting and contact a physician or Poison Control Center. Rinse mouth with water. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person.

Notes to physician
Treat symptomatically.

Potential acute health effects

Inhalation
None anticipated under normal conditions of use. If product is sprayed or aspirated, inhalation may become a relevant route of exposure. May cause irritation of the mucous membranes. May cause central nervous system depression.

Ingestion
Moderate oral toxicity. May cause CNS effects, blood disturbances and damage to kidney and other organs.

Skin
Virtually nontoxic after a single skin contact. May cause mild irritation.

Eyes
Eye contact may cause mild irritation.

Potential chronic health effects

Chronic effects
Repeated exposure to the substance by dermal administration leads to effects similar to those found after single exposure.

Carcinogenicity
This product contains Carbon Black (CAS # 1333-86-4) which is classified as possibly carcinogenic to humans by IARC (IARC Group 2B) via inhalation. This is not a relevant route of exposure during normal use of this product.

Developmental effects
None known.

Fertility effects
None known.

Target organs
Central Nervous System; Kidney

Over-exposure signs/symptoms

Inhalation
Irritation of respiratory tract and mucous membranes. Central Nervous System effects.

Ingestion
Central Nervous System effects, Irritation, nausea
Skin Irritation
Eyes Irritation
Medical conditions aggravated by over-exposure None known.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

<table>
<thead>
<tr>
<th>Flammability properties of the product</th>
<th>Flash Point: 138°C (280°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point Method Used: Pensky-Martens Closed Cup (ASTM D-93)</td>
<td></td>
</tr>
<tr>
<td>Flammable Limits in Air (Lower - % by volume): Not Determined</td>
<td></td>
</tr>
<tr>
<td>Flammable Limits in Air (Upper - % by volume): Not Determined</td>
<td></td>
</tr>
</tbody>
</table>

Extinguishing media

<table>
<thead>
<tr>
<th>Suitable</th>
<th>Water, dry extinguishing media, carbon dioxide, foam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not suitable</td>
<td>High-Pressure Water Spray (may spread burning material).</td>
</tr>
</tbody>
</table>

Special exposure hazards None known.

Hazardous combustion products Carbon Monoxide, Carbon Dioxide.

Unusual Fire and Explosion Hazards Sealed, fire-exposed containers may build up dangerous pressure, potentially resulting in explosive rupture. Keep sealed fire-exposed containers cool with water spray.

Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment, including self-contained breathing apparatus and turn-out gear.

6. Accidental release measures

Personal precautions No action shall be taken involving any personal risk or without suitable training. Clear area. Ensure adequate ventilation. Put on appropriate personal protective equipment (see section 8).

Environmental precautions Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Spill Response Dike spillage. Clean up large spills with vacuum truck. Soak up small spills with absorbent material and place in labeled containers for recovery or disposal.

7. Handling and storage

Handling Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Avoid breathing vapor or mist. Avoid contact with eyes, skin, and clothing. Avoid tasting or swallowing. Keep container closed when not in use. Use with adequate ventilation. Wash thoroughly after handling.

Storage Keep in the original container or an approved alternative made from a compatible material, kept tightly sealed when not in use. Take measures to prevent the introduction of water or atmospheric moisture. Store at room temperature in a dry place away from heat and direct sunlight. Store in accordance with all local and government regulations. Recommended storage temperature: 59 – 95°F (15 - 35°C)
8. Exposure controls/personal protection

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Identity</th>
<th>Exposure Limits</th>
<th>ACGIH</th>
<th>OSHA</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>TWA</td>
<td>STEL</td>
<td>PEL</td>
</tr>
<tr>
<td>111-46-6</td>
<td>Diethylene Glycol</td>
<td></td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
</tr>
<tr>
<td>1333-86-4</td>
<td>Carbon Black (limits as total dust)</td>
<td></td>
<td>3.5 mg/m³</td>
<td>N.E.</td>
<td>3.5 mg/m³</td>
</tr>
</tbody>
</table>

**Recommended monitoring procedures**
If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

**Engineering measures**
Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Hygiene measures**
Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated equipment or clothing should be cleaned after each use or disposed of. Ensure that eyewash stations and safety showers are located in the work area.

**Respiratory**
Use a properly fitted, air-purifying or air-supplied respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Eyes**
Safety glasses with side-shields or chemical splash goggles are recommended.

**Skin**
Chemical resistant protective gloves are required. Suitable materials include: nitrile rubber.
Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt; 200°C (decomposes)</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>-8 to -6.5°C (18 - 20.3°F)</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>1.00</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>&lt; 0.001 mmHg</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Slight, characteristic odor</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Slightly soluble</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not Determined</td>
</tr>
</tbody>
</table>

10. Stability and reactivity

**Stability**
The product is stable. Hazardous polymerization will not occur.

**Conditions to avoid**
None known.

**Materials to avoid**
Reactive or incompatible with the following materials: Strong oxidizers, isocyanates.
Other hazards May present a slipping hazard if spilled.

Hazardous decomposition products Decomposition products may include the following materials: Carbon Monoxide, Carbon Dioxide.

### 11. Toxicological information

#### Acute toxicity

<table>
<thead>
<tr>
<th>Test</th>
<th>Species</th>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt; 5,000 mg/kg;</td>
<td></td>
</tr>
<tr>
<td>LD50 Oral</td>
<td>Human</td>
<td>&gt; 5,000 mg/kg (estimated)</td>
<td></td>
</tr>
<tr>
<td>LC50 Inhalation</td>
<td>Rat</td>
<td>&gt; 50.8 mg/L (4 Hour - estimated)</td>
<td></td>
</tr>
<tr>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>&gt; 2,000 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

#### Sensitization

<table>
<thead>
<tr>
<th>Test</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Sensitization</td>
<td>Not classified</td>
<td></td>
</tr>
</tbody>
</table>

#### Carcinogenicity Classification

<table>
<thead>
<tr>
<th>Test</th>
<th>Species</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Black (CAS # 1333-86-4)</td>
<td>IARC</td>
<td>Group 2B (Possibly carcinogenic to humans)</td>
</tr>
<tr>
<td></td>
<td>NTP</td>
<td>Not listed</td>
</tr>
<tr>
<td></td>
<td>OSHA</td>
<td>Not regulated as a carcinogen</td>
</tr>
<tr>
<td></td>
<td>EU</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

### 12. Ecological information

#### Environmental effects

#### Ecotoxicity

**Fish** *(estimate based on mixture data)*
- LC50: estimated to be > 100 mg/L
- Exposure time: 96 h
- Acute and chronic toxicity to fish is very low.

**Aquatic invertebrates**
- Acute and chronic toxicity to freshwater and marine invertebrates is very low.

#### Biodegradability

Not readily biodegradable.

### 13. Disposal considerations

**Waste disposal**
The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection & waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### 14. Transport information

The data provided in this section is for information only and may not be specific to each package size or mode of transport. Apply the appropriate regulations to properly classify your shipment for transportation.

#### International transport regulations

<table>
<thead>
<tr>
<th>Regulatory information</th>
<th>UN/NA number</th>
<th>Proper shipping name</th>
<th>Classes/*PG</th>
<th>Reportable Quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFR</td>
<td>N/A</td>
<td>Not dangerous goods</td>
<td>N/A</td>
<td>N/A.</td>
</tr>
<tr>
<td>TDG</td>
<td>N/A</td>
<td>Not dangerous goods</td>
<td>N/A</td>
<td>N/A.</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>N/A</td>
<td>Not dangerous goods</td>
<td>N/A</td>
<td>N/A.</td>
</tr>
<tr>
<td>IATA</td>
<td>N/A</td>
<td>Not dangerous goods</td>
<td>N/A</td>
<td>N/A.</td>
</tr>
</tbody>
</table>

*PG : Packing group
15. Regulatory information

US regulations
HCS Classification
When used for its intended purpose, this material is classified as hazardous in accordance with OSHA 29CFR 1910.1200.

U.S. Federal regulations
SARA Title III, Section 311/312 Classification
Immediate (Acute) health hazard

SARA Title III, Section 313 - Supplier Notification
This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.

No chemicals present above the \textit{de minimus} limit.

CERCLA RQ: None

SARA Section 302 Extremely Hazardous Substances
None required.

State regulations
Massachusetts RTK Substances
None

New Jersey RTK Hazardous Substances
None

Pennsylvania RTK Hazardous Substances
Diethylene Glycol (CAS No. 111-46-6; ETHANOL, 2,2-OXYBIS-)

California Prop. 65: WARNING: This product contains the following chemical(s) known to the State of California to cause cancer:
None

California Prop. 65: WARNING: This product contains the following chemical(s) known to the State of California to be a reproductive toxin:
None

International regulations
Chemical inventories
United States inventory (TSCA 8b) - All components are listed or exempted.

16. Other information

Hazardous Material Information System III (U.S.A.)
Health: 1
Flammability: 1
Physical hazards: 0
Personal Protection: X

Caution: HMIS\textsuperscript{®} ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. HMIS\textsuperscript{®} ratings are to be used with a fully implemented HMIS\textsuperscript{®} program.

Prepared by
Polyset Company, Inc.

Date of issue
June 29, 2015

Date of printing
June 29, 2015

Notice to reader
The information provided herein was believed by Polyset Company, Inc. ("Polyset") to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. All products supplied by Polyset are subject to Polyset's terms and conditions of sale. POLYSET MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY POLYSET, except that the product shall conform to Polyset's specifications. Nothing contained herein constitutes an offer for the sale of any product.
1. Product and company identification

Product Name: Ply-Krete® FS - Part B

Internal Code(s): 261120; 261160; 261161; 261162; 261164; 261171

Product Type: Aromatic MDI Isocyanate

Product Use: Two-Component Elastomeric Concrete

Manufacturer/Supplier: Polyset Company, Inc.
65 Hudson Avenue
Mechanicville, NY 12118
U.S.A.

www.polyset.com
info@polyset.com

Revision Date: 24-JUN-2015

For 24-Hour Emergency Response Information
Call ChemTel: (800) 255-3924 (U.S./Canada)
+1-813-248-0585 (International)

For Other Product or Technical Information
Call Polyset Company, Inc.: (518) 664-6000

2. Hazards identification

Product Form: Dark Amber Liquid

OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazard Category Classification:

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Classification</th>
<th>GHS Pictogram(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity</td>
<td>4 Acute Toxicity (Inhalation – Mist)</td>
<td>!</td>
</tr>
<tr>
<td>Skin Corrosion / Irritation</td>
<td>2 Skin Irritant</td>
<td>!</td>
</tr>
<tr>
<td>Eye Damage / Irritation</td>
<td>2B Mildly Irritating to Eyes</td>
<td>!</td>
</tr>
<tr>
<td>Respiratory Sensitizer</td>
<td>1 Respiratory Sensitizer</td>
<td></td>
</tr>
<tr>
<td>Skin Sensitizer</td>
<td>1B Low to Moderate Frequency Skin Sensitizer</td>
<td></td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>2 Suspected Human Carcinogen</td>
<td></td>
</tr>
<tr>
<td>Specific Target Organ Toxicity – Single Exposure</td>
<td>3 Transient Target Organ Effects (Irritating to Respiratory System)</td>
<td></td>
</tr>
<tr>
<td>Specific Target Organ Toxicity – Repeated/Prolonged Exposure</td>
<td>2 Potential to be Harmful to Human Health Following Repeated/Prolonged Use (Inhalation)</td>
<td></td>
</tr>
</tbody>
</table>

GHS Pictogram(s):

Signal Word: DANGER

Hazard Statement:

H320 Causes eye irritation.
H315 Causes skin irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H373 May cause damage to organs (Olfactory organs) through prolonged or repeated exposure (inhalation).
Precautionary Statements:

**Prevention:**
- P280 Wear protective gloves / protective clothing / eye protection / face protection.
- P271 Use only outdoors or in a well-ventilated area.
- P260 Do not breathe mist / vapors.
- P201 Obtain special instructions before use.
- P261 Avoid breathing mist.
- P202 Do not handle until all safety precautions have been read and understood.
- P284 (In case of inadequate ventilation) wear respiratory protection.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P264 Wash hands and exposed skin thoroughly after handling.

**Response:**
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue Rinsing.
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P308 + P313 IF exposed or concerned: Get medical advice/attention.
- P314 Get medical advice/attention if you feel unwell.
- P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P362 Take off contaminated clothing and wash before reuse.
- P332 + P313 If skin irritation occurs: Get medical advice/attention.
- P337 + P313 If eye irritation persists, Get medical advice/attention.

**Storage:**
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.

**Disposal:**
- P501 Dispose of contents/container to hazardous or chemical waste disposal facility in accordance with all local/national/international regulations.

Hazards not otherwise classified:
None known.

Supplemental Label Information:
Contains isocyanates. Inhalation of isocyanate mists or vapors may cause respiratory irritation, breathlessness, chest discomfort and reduced pulmonary function. Overexposure well above the PEL may result in bronchitis, bronchial spasms and pulmonary edema. Long-term exposure to isocyanates has been reported to cause lung damage, including reduced lung function which may be permanent. Acute or chronic overexposure to isocyanates may cause sensitization in some individuals, resulting in allergic respiratory reactions including wheezing, shortness of breath and difficulty breathing. Animal tests indicate that skin contact may play a role in causing respiratory sensitization.

### 3. Composition/Information on ingredients

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>CAS number</th>
<th>WT %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymeric MDI</td>
<td>9016-87-9</td>
<td>50.0 – 75.0%</td>
</tr>
<tr>
<td>Diphenylmethane-4,4'-diisocyanate (MDI)</td>
<td>101-68-8</td>
<td>25.0 – 50.0%</td>
</tr>
<tr>
<td>Methylene diphenyl diisocyanate</td>
<td>26447-40-5</td>
<td>1.0 – 7.0%</td>
</tr>
</tbody>
</table>

### 4. First aid measures

**Eye contact**  
In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention required.
Skin contact
Remove contaminated clothing. Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

Inhalation
Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

Ingestion
Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

Other Hazards
Symptoms can appear later. Isocyanate respiratory sensitization may result in allergic (asthma-like) signs in the lower respiratory tract including wheezing, shortness of breath and difficulty breathing, the onset of which may be delayed. Repeated inhalation of high concentrations may cause lung damage, including reduced lung function, which may be permanent. Substances eliciting lower respiratory tract irritation may worsen the asthma-like reactions that may be produced by product exposures.

Notes to physician
Specific antidotes or neutralizers to isocyanates do not exist. Treatment should be supportive and based on the judgment of the physician in response to the reaction of the patient. Symptoms can appear later.

Potential acute health effects

Inhalation
Of moderate toxicity after short-term inhalation.

Ingestion
Virtually nontoxic after a single ingestion.

Skin
Virtually nontoxic after a single skin contact. Skin contact may cause irritation. Sensitization after skin contact is possible.

Eyes
Eye contact causes irritation.

Potential chronic health effects

Chronic effects
Repeated exposure to the substance by dermal administration leads to effects similar to those found after single exposure. Repeated exposure to the substance by inhalative administration leads to effects similar to those found after single exposure. Repeated exposure to the substance by oral administration leads to effects similar to those found after single exposure.

Carcinogenicity
This product contains MDI, which is considered to have a possible carcinogenic effect in animal tests. However, the relevance of this result for humans is unclear.

Developmental effects
The substance (MDI) did not cause malformations in animal studies; however, toxicity to development was observed at high doses that were toxic to the parental animals.

Fertility effects
See “Developmental effects.”

Target organs
Eye, Skin, Respiratory Tract.

Over-exposure signs/symptoms

Inhalation
Irritation of respiratory tract; Shortness of breath.

Ingestion
Irritation, nausea

Skin
Irritation, redness, itching, swelling.

Eyes
Irritation, redness, tearing.

Medical conditions aggravated by over-exposure
The isocyanate component is a respiratory sensitizer. It may cause allergic reaction leading to asthma-like spasms of the bronchial tubes and difficulty in breathing. Medical supervision of all employees who handle or come into contact with isocyanates is recommended. Contact may aggravate pulmonary disorders. Persons with history of respiratory disease or hypersensitivity should not be exposed to this product. Pre-employment and periodic medical examinations
with respiratory function tests (FEV, FVC as a minimum) are suggested. An animal study indicated that MDI may induce respiratory hypersensitivity following dermal exposure. Persons with asthmatic conditions, chronic bronchitis, other chronic respiratory diseases, recurrent eczema or pulmonary sensitization should be excluded from working with isocyanates. Once a person is diagnosed as having pulmonary sensitization (allergic asthma) to isocyanates, further exposure is not recommended.

See section 11 for more detailed information on health effects and symptoms.

**5. Fire-fighting measures**

<table>
<thead>
<tr>
<th>Flammability properties of the product</th>
<th>Flash Point: 220°C (428°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point Method Used</td>
<td>Open cup</td>
</tr>
<tr>
<td>Flammable Limits in Air (Lower - % by volume):</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Flammable Limits in Air (Upper - % by volume):</td>
<td>Not Determined</td>
</tr>
</tbody>
</table>

**Extinguishing media**

<table>
<thead>
<tr>
<th>Suitable</th>
<th>Water spray, dry extinguishing media, carbon dioxide, foam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not suitable</td>
<td>None.</td>
</tr>
</tbody>
</table>

**Special exposure hazards**

Isocyanates slowly react with water to release carbon dioxide gas.

**Hazardous combustion products**

Nitrous gases, fumes/smoke, isocyanate, vapor.

**Unusual Fire and Explosion Hazards**

Sealed, fire-exposed containers may build up dangerous pressure, potentially resulting in explosive rupture.

**Special protective equipment for fire-fighters**

Fire-fighters should wear appropriate protective equipment, including self-contained breathing apparatus and turn-out gear.

**6. Accidental release measures**

**Personal precautions**

No action shall be taken involving any personal risk or without suitable training. Clear area. Ensure adequate ventilation. Put on appropriate personal protective equipment (see section 8).

**Environmental precautions**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**Spill Response**

Dike spillage.

For small amounts: Absorb isocyanate with suitable absorbent material (see § 40 CFR, sections 260, 264 and 265 for further information). Shovel into open container. Do not make container pressure tight. Move container to a well-ventilated area (outside). Spill area can be decontaminated with the following recommended decontamination solution: Mixture of 90 % water, 8 % concentrated ammonia, 2 % detergent. Add at a 10 to 1 ratio. Allow to stand for at least 48 hours to allow escape of evolved carbon dioxide.

For large amounts: If temporary control of isocyanate vapor is required, a blanket of protein foam or other suitable foam (available from most fire departments) may be placed over the spill. Transfer as much liquid as possible via pump or vacuum device into closed but not sealed containers for disposal.

For residues: The following measures should be taken for final cleanup: Wash down spill area with decontamination solution. Allow solution to stand for at least 10 minutes.
7. Handling and storage

Handling
Put on appropriate personal protective equipment when handling (Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Avoid breathing vapor or mist. Avoid contact with eyes, skin, and clothing. Avoid tasting or swallowing. Keep container closed when not in use. Use with adequate ventilation. Wash thoroughly after handling. If bulging of drum occurs, transfer to well-ventilated area, puncture to relieve pressure, open vent and let stand for 48 hours before resealing.

Storage
Store in accordance with all local and government regulations. Keep in the original container or an approved alternative made from a compatible material, kept tightly sealed when not in use. Formation of CO2 and build up of pressure possible if moisture is introduced. Keep container tightly closed and in a well-ventilated place. Outage of containers should be filled with dry inert gas at atmospheric pressure to avoid reaction with moisture. Recommended storage temperature: 59 - 95°F (15 - 35°C).

8. Exposure controls/personal protection

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Identity</th>
<th>Exposure Limits</th>
<th>ACGIH</th>
<th>OSHA</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>STEL</td>
<td>PEL</td>
<td>STEL</td>
</tr>
<tr>
<td>9016-87-9</td>
<td>Polymeric MDI</td>
<td>0.005 ppm</td>
<td>N.E.</td>
<td>0.2 mg/m³ Ceiling</td>
<td>N.E.</td>
</tr>
<tr>
<td>101-68-8</td>
<td>Diphenylmethane-4,4'-diisocyanate (MDI)</td>
<td>0.005 ppm</td>
<td>N.E.</td>
<td>0.2 mg/m³ Ceiling</td>
<td>N.E.</td>
</tr>
<tr>
<td>26447-40-5</td>
<td>MDI Mixed Isomers</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
</tr>
</tbody>
</table>

Recommended monitoring procedures
If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures
Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures
Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated equipment or clothing should be cleaned after each use or disposed of. Ensure that eyewash stations and safety showers are located in the work area.

Respiratory
Use a properly fitted, air-purifying or air-supplied respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Eyes
Chemical splash goggles are recommended. Wear face shield if splashing hazard exists.

Skin
Chemical resistant protective gloves are required. Suitable materials include: chloroprene rubber (Neoprene), nitrile rubber (Buna N), chlorinated polyethylene, polyvinylchloride (Pylox), butyl rubber, fluoroelastomer (Viton). Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Dark Amber</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt; 200°C (&gt; 392°F)</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>&lt; 3°C (&lt; 38°F)</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>1.23</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>0.00001 mmHg (at 25°C)</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Slight, aromatic odor</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Not applicable; Reacts with water</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not Determined</td>
</tr>
</tbody>
</table>

10. Stability and reactivity

Stability
The product is stable when properly stored and handled.

Conditions to avoid
Avoid contact with water or alcohols in sealed containers. Risk of bursting.

Materials to avoid
Reactive or incompatible with the following materials: water, alcohols, strong bases, substances/products that react with isocyanates.

Other hazards
Thermal decomposition at temperatures > 260°C.

Hazardous decomposition products
Decomposition products may include the following materials: carbon monoxide, hydrogen cyanide, nitrogen oxides, aromatic isocyanates, gases/vapors

11. Toxicological information

Acute toxicity

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Species</th>
<th>Route</th>
<th>LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 Oral</td>
<td>Rat</td>
<td>Oral</td>
<td>&gt; 2,000 mg/kg</td>
</tr>
<tr>
<td>LC50 Inhalation</td>
<td>Rat</td>
<td>Inhalation</td>
<td>2.0 mg/L (aerosol)</td>
</tr>
<tr>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>Dermal</td>
<td>&gt;9,400 mg/kg</td>
</tr>
</tbody>
</table>

Carcinogenicity Classification

Diphenylmethane-4,4’-diisocyanate (MDI): Indication of possible carcinogenic effect in animal tests. However, the relevance of this result for humans is unclear.

Ingredient name

<table>
<thead>
<tr>
<th>Name</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
<th>EU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diphenylmethane-4,4’-diisocyanate (MDI) (CAS # 101-68-8):</td>
<td>Group 3 (Not classifiable as to carcinogenicity to humans)</td>
<td>Not listed</td>
<td>Not regulated as a carcinogen</td>
<td>Category 2 (H351: Suspected of causing cancer.)</td>
</tr>
</tbody>
</table>

12. Ecological information

Environmental effects

Fish
Acute: static Brachydanio rerio/LC50 (24 h): > 500 mg/l
Practically nontoxic.
Information on: Diphenylmethane-4,4’-diisocyanate (MDI)
Acute:
OECD Guideline 203 static
Brachydanio rerio/LC0 (96 h): > 1,000 mg/l
Aquatic invertebrates
Acute: Daphnia magna/EC50 (24 h): > 500 mg/l
Practically nontoxic.

Information on: Diphenylmethane-4,4’-diisocyanate (MDI)
Acute:
OECD Guideline 202, part 1 static
Daphnia magna/EC50 (24 h): > 1,000 mg/l

Other adverse effects
Poorly biodegradable.
The product is unstable in water. The elimination data also refer to products of hydrolysis.

13. Disposal considerations

Waste disposal
The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

The data provided in this section is for information only and may not be specific to each package size or mode of transport. Apply the appropriate regulations to properly classify your shipment for transportation.

International transport regulations

<table>
<thead>
<tr>
<th>Regulatory Information</th>
<th>UN/NA Number</th>
<th>Proper Shipping Name</th>
<th>Classes/PG</th>
<th>Reportable Quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFR</td>
<td>N/A</td>
<td>Not dangerous goods</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>TDG</td>
<td>N/A</td>
<td>Not dangerous goods</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>N/A</td>
<td>Not dangerous goods</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>IATA</td>
<td>N/A</td>
<td>Not dangerous goods</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

*PG : Packing group

15. Regulatory information

US regulations

HCS Classification
When used for its intended purpose, this material is classified as hazardous in accordance with OSHA 29CFR 1910.1200.

U.S. Federal regulations
SARA Title III, Section 311/312 Classification
Immediate (Acute) health hazard
Delayed (Chronic) health hazard

SARA Title III, Section 313 - Supplier Notification
This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.

Diphenylmethane-4,4’-diisocyanate; CAS # 101-68-8; Diisocyanates Category (N120)
Polymeric MDI; CAS # 9016-87-9; Diisocyanates Category (N120)

CERCLA RQ: Diphenylmethane-4,4’-diisocyanate (MDI) (CAS # 101-68-8): 5,000 Lbs.
Polymeric MDI (CAS # 9016-87-9): 5,000 Lbs.

SARA Section 302 Extremely Hazardous Substances
None required.

State regulations
Massachusetts RTK Substances
Diphenylmethane-4,4’-diisocyanate (MDI) (CAS # 101-68-8)
Polymeric MDI (CAS # 9016-87-9)
New Jersey RTK Hazardous Substances
Diphenylmethane-4,4'-diisocyanate (MDI) (CAS # 101-68-8)
Polymeric MDI (CAS # 9016-87-9)

Pennsylvania RTK Hazardous Substances
Diphenylmethane-4,4'-diisocyanate (MDI) (CAS # 101-68-8)
Polymeric MDI (CAS # 9016-87-9)

California Prop. 65: WARNING: This product contains the following chemical(s) known to the State of California to cause cancer:
None

California Prop. 65: WARNING: This product contains the following chemical(s) known to the State of California to be a reproductive toxin:
None

International regulations
Chemical inventories
United States inventory (TSCA 8b) - All components are listed or exempted.

16. Other information

| Hazardous Material Information System III (U.S.A.) |  |
| Health: 2 |  |
| Flammability: 1 |  |
| Physical hazards: 1 |  |
| Personal Protection: X |  |

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. HMIS® ratings are to be used with a fully implemented HMIS® program.

Prepared by Polyset Company, Inc.
Date of issue June 24, 2015
Date of printing June 24, 2015

Notice to reader
The information provided herein was believed by Polyset Company, Inc. ("Polyset") to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. All products supplied by Polyset are subject to Polyset’s terms and conditions of sale. POLYSET MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY POLYSET, except that the product shall conform to Polyset’s specifications. Nothing contained herein constitutes an offer for the sale of any product.
Ply-Krete® FS

Ply-Krete® FS is a fast-setting, low-viscosity, two-component 100% solid, modified polyurethane elastomeric concrete. It is designed as an expansion joint header to preserve and protect concrete decks and substructures by preventing water absorption and minimizing chloride intrusion. Ply-Krete® FS is a fast-setting Ply-Krete® elastomeric concrete, allowing traffic to return in as little as two hours.

Key Features
- Flexible, but tough
- High abrasion resistance
- Easy mixing and fast setting
- Excellent impact resistance
- Excellent thermal shock resistance
- Very good solvent and chemical resistance
- Ideal for quick repairs to expansion joints
- Excellent adhesion to various substrates
- Resistant to UV and ozone exposure
- Resistant to freeze-thaw changes
- Economical with high quality

Other Applications
- Pothole patching material in concrete
- Repairing control joints in concrete decks and roadways
- Control joints in warehouse floors

Shelf Life: One year in the original, unopened containers

Storage: Store between 65–90°F

Technical Bulletin

Physical Data

Typical properties, not intended for specifications

<table>
<thead>
<tr>
<th>Appearance @ 25°C</th>
<th>Part &quot;A&quot;</th>
<th>Part &quot;B&quot;</th>
<th>Mixed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packaging</td>
<td>1 Can</td>
<td>1 Can</td>
<td>With 1 Bag Agg</td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
<td>Lt. Brown</td>
<td>Black</td>
</tr>
<tr>
<td>Viscosity, cps</td>
<td>550 ± 25</td>
<td>250 ± 50</td>
<td>-</td>
</tr>
<tr>
<td>Wt./gal., lb</td>
<td>8.1 ± 0.1</td>
<td>10.2 ± 0.1</td>
<td>-</td>
</tr>
</tbody>
</table>

Mix Ratio

- 2 Part "A" 1 Part "B" By Volume
- 100 "A" 63 "B" By Weight

Mix A & B well, then add supplied aggregate

Cure
- Gel Time @ 25°C 8 -12 Min.
- Initial Cure 2 Hrs @ 25°C With Supplied Aggregate

Properties with Aggregate (Aggregate Type Affects Results)

- Compressive Strength, psi: 3000 Min. ASTM C579
- Brittleness ± 1 ft-lb: 7 ft-lb Min. Ball Drop

Properties with Binder Only

- Tensile Strength, psi: 1650 ± 200 ASTM D638
- Tear Strength, pli: 150 ± 25 ASTM D624
- Shore D Hardness: 45 ± 5 ASTM D2240
- Bond Strength To Wet Concrete: 450 psi Tex 618-J

Packaging: Standard stock kits are packed in 0.52 cu. ft. kits. Larger size packaging is available upon request.

For proper installation instructions please, refer to the “Ply-Krete® Installation Instructions” Technical Bulletin. For health and safety information, please refer to the MSDS.
# Safety Data Sheet

## 1. Product and company identification

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Ply-Primer – Part A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal Code(s)</td>
<td>260910; 260914; 260962</td>
</tr>
<tr>
<td>Product Type</td>
<td>Epoxy Resin</td>
</tr>
<tr>
<td>Product Use</td>
<td>Civil Engineering Resin System</td>
</tr>
<tr>
<td>Manufacturer/Supplier</td>
<td>Polyset Company, Inc.</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.polyset.com">www.polyset.com</a></td>
</tr>
<tr>
<td></td>
<td>P.O. Box 111</td>
</tr>
<tr>
<td></td>
<td>65 Hudson Avenue</td>
</tr>
<tr>
<td></td>
<td>Mechanicville, NY 12118</td>
</tr>
<tr>
<td></td>
<td>U.S.A.</td>
</tr>
<tr>
<td>Revision Date</td>
<td>4-AUG-2015</td>
</tr>
</tbody>
</table>

**Telephone**

For 24-Hour Emergency Response Information

Call ChemTel: (800) 255-3924 (U.S./Canada)

+1-813-248-0585 (International)

For Other Product or Technical Information

Call Polyset Company, Inc.: (518) 664-6000

## 2. Hazards identification

<table>
<thead>
<tr>
<th>Product Form</th>
<th>Straw-colored liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA/HCS status</td>
<td>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazard Category Classification</th>
<th>Hazard Category</th>
<th>Hazard Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corrosion / Irritation</td>
<td>2</td>
<td>Skin Irritation</td>
</tr>
<tr>
<td>Serious Eye Damage / Eye Irritation</td>
<td>2A</td>
<td>Eye Irritation - Reversible effects on the eye.</td>
</tr>
<tr>
<td>Skin Sensitization</td>
<td>1</td>
<td>Skin Sensitizer</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>2</td>
<td>May induce heritable mutations in germ cells</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>2</td>
<td>Suspected human carcinogen</td>
</tr>
<tr>
<td>Specific Target Organ Toxicity (Single Exposure)</td>
<td>3</td>
<td>Transient target organ effects - Respiratory Tract Irritation via inhalation</td>
</tr>
<tr>
<td>Specific Target Organ Toxicity (Repeated Exposure)</td>
<td>1</td>
<td>Potential to produce significant toxicity in humans following repeated exposure - Central Nervous System (CNS) via inhalation; Skin via skin contact</td>
</tr>
</tbody>
</table>

### GHS Pictogram(s):

- [Image of GHS pictograms]

### Signal Word:

DANGER

### Hazard Statement:

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H341 Suspected of causing genetic defects.
- H351 Suspected of causing cancer.
- H335 May cause respiratory irritation.
- H372 Causes damage to organs (central nervous system (CNS), skin) through prolonged or repeated exposure.
Precautionary Statements:

**Prevention:**
- P264 Wash hands and exposed skin thoroughly after handling.
- P280 Wear protective (permeation-resistant rubber) gloves / protective clothing / eye protection / face protection.
- P260 Do not breathe vapors.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P271 Use only outdoors or in a well-ventilated area.
- P270 Do not eat, drink, or smoke when using this product.

**Response:**
- P308 + P313 IF exposed or concerned: Get medical advice / attention.
- P302 + P352 IF ON SKIN: Wash with plenty of water and soap.
- P333 + P313 If skin irritation or rash occurs: Get medical attention.
- P362 + P364 Take off contaminated clothing and wash it before reuse.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 If eye irritation persists: Get medical attention.
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER or doctor if you feel unwell.

**Storage:**
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.

**Disposal:**
- P501 Dispose of contents / container to a disposal facility in accordance with all local / national / international regulations.

### 3. Composition/Information on ingredients

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>CAS number</th>
<th>WT %</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4’-Isopropylidenidiphenol-Epichlorohydrin Copolymer</td>
<td>25068-38-6</td>
<td>65 – 80%</td>
</tr>
<tr>
<td>9-Octadecenoic acid, 12-(2-oxiranylmethoxy)-, 1,2,3-propanetriyl ester, homopolymer</td>
<td>74398-71-3</td>
<td>15 – 25%</td>
</tr>
<tr>
<td>Oxirane, 2-(butoxymethyl)-</td>
<td>2426-08-6</td>
<td>5 – 10%</td>
</tr>
</tbody>
</table>

### 4. First aid measures

**Eye contact**
Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.

**Skin contact**
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. In the event of any complaints or symptoms, avoid further exposure. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Inhalation**
Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Ingestion**
Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept...
low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Notes to physician

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

Flammability properties of the product

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>&gt;93°C (&gt;199.4°F)</td>
</tr>
<tr>
<td>Flash Point Method Used</td>
<td>Pensky-Martens Closed Cup (ASTM D-93)</td>
</tr>
<tr>
<td>Flammable Limits in Air (Lower - % by volume)</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammable Limits in Air (Upper - % by volume)</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

Extinguishing media

<table>
<thead>
<tr>
<th>Media</th>
<th>Suitable</th>
<th>Not suitable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Pressure Water Spray, Foam, Carbon Dioxide, Dry Chemical</td>
<td>High-Pressure Water Spray (may spread burning material).</td>
<td></td>
</tr>
</tbody>
</table>

Special exposure hazards

Wear self-contained breathing apparatus (SCBA) to protect from hazardous combustion products. Be aware of the explosive rupture potential of this product under fire and/or excessive heating conditions.

Hazardous combustion products

Carbon Monoxide, Carbon Dioxide, Hydrocarbons, and other Aliphatic Fragments of uncertain composition.

Unusual Fire and Explosion Hazards

The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

Special protective equipment & instructions for fire-fighters

Fire-fighters should wear appropriate protective equipment including self-contained breathing apparatus (SCBA). Fight fire from safe distance and protected location. Avoid direct personal contact with liquid. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Prevent fire-fighting water from entering environment.

6. Accidental release measures

Personal precautions

No action shall be taken involving any personal risk or without suitable training. Put on appropriate personal protective equipment (see section 8).

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Spill Response

Clean up large spills with vacuum truck. Soak up small spills with absorbent material and place in labeled containers for recovery or disposal.

7. Handling and storage

Handling

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Avoid breathing vapor or mist. Avoid contact with eyes, skin, and clothing. Avoid tasting or swallowing. Keep container closed when not in use. Use with adequate ventilation. Wash thoroughly after handling.

Storage

Keep in the original container or an approved alternative made from a compatible material, kept tightly sealed when not in use. Take measures to prevent the introduction of water or atmospheric moisture. Store at room temperature in a dry
place away from heat and direct sunlight. Store in accordance with all local and government regulations. Recommended storage temperature: 59 - 95°F (15 - 35°C).

8. Exposure controls/personal protection

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Identity</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>25068-38-6</td>
<td>4,4’-Isopropylidenediphenol-Epichlorohydrin Copolymer</td>
<td></td>
</tr>
<tr>
<td>74398-71-3</td>
<td>9-Octadecenoic acid, 12-(2-oxiranylmethoxy)-, 1,2,3-propanetriyl ester, homopolymer</td>
<td></td>
</tr>
<tr>
<td>2426-08-6</td>
<td>Oxirane, 2-(butoxymethyl)-</td>
<td></td>
</tr>
</tbody>
</table>

Recommended monitoring procedures
If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures
Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures
Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are located in the work area.

Respiratory
Use a properly fitted, air-purifying or air-supplied respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Eyes
Safety glasses with side-shields or chemical splash goggles are recommended.

Skin
Impervious gloves should be used. Butyl rubber gloves are recommended. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Straw-colored</td>
</tr>
<tr>
<td>pH</td>
<td>Not determined</td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt; 117.8°C (&gt; 244°F)</td>
</tr>
<tr>
<td>Freezing Point</td>
<td></td>
</tr>
<tr>
<td>Specific gravity</td>
<td>1.10</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Slight sweet-smelling odor</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Negligible</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not Determined</td>
</tr>
</tbody>
</table>

10. Stability and reactivity
**Stability**
The product is stable under normal conditions of storage and use.

**Conditions to avoid**
Excessive heat. Sparks, open flames, and other sources of ignition.

**Materials to avoid**
Reactive or incompatible with the following materials: Strong oxidizers.

**Other hazards**
Curing reaction may release significant heat when mixed with Part B

**Hazardous decomposition products**
Decomposition products upon combustion may include the following materials: Carbon Monoxide, Carbon Dioxide.

### 11. Toxicological information

**Acute toxicity**
- LD50 Oral Rat > 6,189 mg/kg (Acute Toxicity Estimate)
- LD50 Dermal Rabbit > 2,016 mg/kg (ATE)
- LC50 Inhalation Rat > 20 mg/L vapors

**Skin Irritation**
Rabbit, OECD Test Guideline 404, 24 Hrs.: Moderately irritating

**Eye Irritation**
Rabbit, Moderately irritating

**Sensitization**
Causes sensitization.
Skin sensitization (local lymph node assay (LLNA)):: positive (mouse, OECD Test Guideline 429)

**Mutagenicity**
Suspected of causing genetic defects.

**Carcinogenicity Classification**
- IARC Not listed
- NTP Not listed
- OSHA Not regulated as a carcinogen
- EU Not classified

### 12. Ecological information

**Environmental effects**
No known significant effects or critical hazards.

**Other adverse effects**
No known significant effects or critical hazards.

### 13. Disposal considerations

**Waste disposal**
The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### 14. Transport information
The data provided in this section is for information only and may not be specific to each package size or mode of transport. Apply the appropriate regulations to properly classify your shipment for transportation.

**International transport regulations**

<table>
<thead>
<tr>
<th>Regulatory information</th>
<th>UN/NA number</th>
<th>Proper shipping name</th>
<th>Classes/*PG</th>
<th>Reportable Quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFR</td>
<td>N/A</td>
<td>Not dangerous goods</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>TDG</td>
<td>N/A</td>
<td>Not dangerous goods</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>N/A</td>
<td>Not dangerous goods</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>IATA</td>
<td>N/A</td>
<td>Not dangerous goods</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

*PG : Packing group

15. Regulatory information

**US regulations**

**HCS Classification**

When used for its intended purpose, this material is classified as hazardous in accordance with OSHA 29CFR 1910.1200.

**U.S. Federal regulations**

**SARA Title III, Section 311/312 Classification**

Acute (Immediate) Health Hazard

**SARA Title III, Section 313 - Supplier Notification**

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.

No chemicals present above the *de minimus* limit.

**SARA Section 302 Extremely Hazardous Substances**

None required.

**State regulations**

**Massachusetts RTK Substances**

4,4’-Isopropylidenediphenol-Epichlorohydrin Copolymer (CAS # 25068-38-6)
Epichlorohydrin (CAS # 106-89-8); <0.05%
Diglycidyl Ether (CAS # 2238-07-5); <0.05%

**New Jersey RTK Hazardous Substances**

4,4’-Isopropylidenediphenol-Epichlorohydrin Copolymer (CAS # 25068-38-6)

**Pennsylvania RTK Hazardous Substances**

4,4’-Isopropylidenediphenol-Epichlorohydrin Copolymer (CAS # 25068-38-6)
Epichlorohydrin (CAS # 106-89-8); <0.05%

**California Prop. 65: WARNING**

This product contains the following chemical(s) known to the State of California to cause cancer:

Epichlorohydrin (CAS # 106-89-8); <0.05%
Phenyl Glycidyl Ether (CAS # 122-60-1); 0.3 - 2 ppm

**California Prop. 65: WARNING**

This product contains the following chemical(s) known to the State of California to be a reproductive toxin:

Epichlorohydrin (CAS # 106-89-8); <0.05%; Male Methanol (CAS # 65-56-1); < 1 ppm; Developmental

**International regulations**

**Chemical inventories**

Australia inventory (AICS) - All components are listed or exempted.
Canada inventory - All components are listed or exempted
Japan inventory - All components are listed or exempted
China inventory (IECSC) - All components are listed or exempted.
Korea inventory - All components are listed or exempted.
New Zealand Inventory (NZIoC) - All components are listed or exempted.
Philippines inventory (PICCS) - All components are listed or exempted.
United States inventory (TSCA 8b) - All components are listed or exempted.
Restriction of Hazardous Substances (RoHS)

This product is RoHS compliant and does not contain lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE) at levels greater than the maximum concentration values specified in Directive 2011/65/EU (dated 8 June, 2011) of the European Parliament and of the Council of the European Union.

16. Other information

| Hazardous Material Information System III (U.S.A.) | Health: 2 |
|                                      | Flammability: 1 |
|                                      | Physical hazards: 0 |
|                                      | Personal Protection: X |

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. HMIS® ratings are to be used with a fully implemented HMIS® program.

Prepared by Polyset Company, Inc.
Date of issue August 4, 2015
Date of printing September 9, 2015

Notice to reader

The information provided herein was believed by Polyset Company, Inc. ("Polyset") to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. All products supplied by Polyset are subject to Polyset's terms and conditions of sale. POLYSET MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY POLYSET, except that the product shall conform to Polyset's specifications. Nothing contained herein constitutes an offer for the sale of any product.
# Safety Data Sheet

## 1. Product and company identification

<table>
<thead>
<tr>
<th><strong>Product Name</strong></th>
<th>Ply-Primer – Part B</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Internal Code(s)</strong></td>
<td>260920; 260924; 260962</td>
</tr>
<tr>
<td><strong>Product Type</strong></td>
<td>Curing Agent for Epoxy Resin</td>
</tr>
<tr>
<td><strong>Product Use</strong></td>
<td>Civil Engineering Resin System</td>
</tr>
</tbody>
</table>
| **Manufacturer/Supplier** | Polyset Company, Inc.  
www.polyset.com  
P.O. Box 111  
65 Hudson Avenue  
Mechanicville, NY 12118  
U.S.A. |
| **Revision Date** | 8-MAR-2016 |
| **Telephone** | For 24-Hour Emergency Response Information  
Call ChemTel: (800) 255-3924 (U.S./Canada)  
+1-813-248-0585 (International)  
For Other Product or Technical Information  
Call Polyset Company, Inc.: (518) 664-6000 |

## 2. Hazards identification

### Product Form
Black liquid

### OSHA/HCS status
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Hazard Category Classification:

<table>
<thead>
<tr>
<th>Category</th>
<th>Classification</th>
<th>Level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity – Inhalation</td>
<td>4</td>
<td>Toxicity via inhalation of mists</td>
<td></td>
</tr>
<tr>
<td>Skin Corrosion / Irritation</td>
<td>1C</td>
<td>Skin Corrosion; Sub-Category 1C</td>
<td></td>
</tr>
<tr>
<td>Serious Eye Damage / Eye Irritation</td>
<td>1</td>
<td>Serious eye damage / irreversible effects on the eye</td>
<td></td>
</tr>
<tr>
<td>Skin Sensitization</td>
<td>1</td>
<td>Skin Sensitizer</td>
<td></td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>1B</td>
<td>Regarded as inducing heritable mutations in germ cells</td>
<td></td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>1A</td>
<td>Known to have carcinogenic potential</td>
<td></td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>1B</td>
<td>Presumed human reproductive toxicant</td>
<td></td>
</tr>
<tr>
<td>Specific Target Organ Toxicity (Repeated Exposure)</td>
<td>2</td>
<td>Presumed to have the potential to be harmful to human health following repeated exposure.</td>
<td></td>
</tr>
<tr>
<td>Hazardous to the Aquatic Environment – Long-Term (Chronic) Hazard</td>
<td>1</td>
<td>Long-term (chronic) aquatic hazard.</td>
<td></td>
</tr>
</tbody>
</table>

### GHS Pictogram(s):

![GHS Pictograms](image)

### Signal Word:
DANGER

### Hazard Statement:

- **H332** | Harmful if Inhaled. |
- **H314** | Causes severe skin burns and eye damage. |
- **H317** | May cause an allergic skin reaction. |
- **H340** | May cause genetic defects. |
- **H350** | May cause cancer. |
- **H360** | May damage fertility or the unborn child. |
May cause damage to organs (blood, thymus, liver) through prolonged or repeated exposure (by oral route of exposure).

**Precautionary Statements:**

**Prevention:**
- P260 Do not breathe dusts or mists.
- P271 Use only outdoors or in a well-ventilated area.
- P264 Wash hands and exposed skin thoroughly after handling.
- P280 Wear protective (chemical-resistant impervious rubber) gloves / protective clothing / eye protection / face protection.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P273 Avoid release to the environment.

**Response:**
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P310 Immediately call a POISON CENTER / doctor / physician.
- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with plenty of water or shower.
- P333 + P313 If skin irritation or rash occurs: Get medical advice / attention.
- P363 Wash contaminated clothing before reuse.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313 If exposed or concerned: Get medical advice / attention.
- P314 Get medical advice / attention if you feel unwell.
- P391 Collect spillage.

**Storage:**
- P405 Store locked up.

**Disposal:**
- P501 Dispose of contents / container to a disposal facility in accordance with all local / national / international regulations.

### 3. Composition/Information on ingredients

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>CAS number</th>
<th>WT %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coal Tar Pitch</td>
<td>65996-93-2</td>
<td>45.0 – 55.0%</td>
</tr>
<tr>
<td>Diethylenetriamine (DETA)</td>
<td>111-40-7</td>
<td>5.0 – 20.0%</td>
</tr>
<tr>
<td>Phenol, 4,4’-(1-methylethylidene)bis-</td>
<td>80-05-7</td>
<td>5.0 – 20.0%</td>
</tr>
<tr>
<td>para-Nonylphenol</td>
<td>84852-15-3</td>
<td>5.0 – 15.0%</td>
</tr>
<tr>
<td>ATBN Polymer</td>
<td>68683-29-4</td>
<td>5.0 – 15.0%</td>
</tr>
<tr>
<td>n-Aminoethylpiperazine</td>
<td>140-31-8</td>
<td>0.3 – 1.0%</td>
</tr>
</tbody>
</table>

### 4. First aid measures

**Eye contact**
Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.

**Skin contact**
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. In the event of any complaints or symptoms, avoid further exposure. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Inhalation**
Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if adverse health effects persist or
are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Ingestion**

If Swallowed, immediately call a POISON CENTER or doctor/physician. Never give anything by mouth to a victim who is unconscious or is having convulsions. Wash out mouth with water. Remove dentures, if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Notes to physician**

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Application of corticosteroid cream has been effective in treating skin irritation.

### 5. Fire-fighting measures

<table>
<thead>
<tr>
<th>Flammability properties of the product</th>
<th>Flash Point: &gt;93°C (&gt;200°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point Method Used</td>
<td>Pensky-Martens Closed Cup (ASTM D-93)</td>
</tr>
<tr>
<td>Flammable Limits in Air (Lower -% by volume):</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammable Limits in Air (Upper -% by volume):</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Extinguishing media</th>
<th>Suitable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohol-resistant Foam, Carbon Dioxide, Dry Chemical, Dry Sand</td>
<td></td>
</tr>
</tbody>
</table>

| Not suitable                         | High-Pressure Water Spray (may spread burning material). |

| Special exposure hazards             | Wear self-contained breathing apparatus (SCBA) to protect from hazardous combustion products. Be aware of the explosive rupture potential of sealed containers of this product under fire and/or excessive heating conditions. |

| Hazardous combustion products       | Carbon Monoxide, Carbon Dioxide, Nitrogen Oxides, Sulfur Oxides, Toxic fumes, |

| Unusual Fire and Explosion Hazards  | Sealed, fire-exposed containers may build up dangerous pressure, potentially resulting in explosive rupture. Keep sealed fire-exposed containers cool with water spray. |

| Special protective equipment & instructions for fire-fighters | Fire-fighters should wear appropriate protective equipment Wear self-contained breathing apparatus and complete personal protective equipment when entering confined areas where potential for exposure to vapors or products of combustion exists. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Prevent fire-fighting water from entering environment. |

### 6. Accidental release measures

| Personal precautions | No action shall be taken involving any personal risk or without suitable training. Put on appropriate personal protective equipment (see section 8). |

| Environmental precautions | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |

| Spill Response | Clean up large spills with vacuum truck. Soak up small spills with absorbent material and place in labeled containers for recovery or disposal. |

### 7. Handling and storage
Handling

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Avoid breathing vapor or mist. Avoid contact with eyes, skin, and clothing. Avoid tasting or swallowing. Keep container closed when not in use. Use with adequate ventilation. Wash thoroughly after handling.

Storage

Keep in the original container or an approved alternative made from a compatible material, kept tightly sealed when not in use. Take measures to prevent the introduction of water or atmospheric moisture. Store at room temperature in a dry place away from heat and direct sunlight. Store in accordance with all local and government regulations. Recommended storage temperature: 59 - 95°F (15 - 35°C).

### 8. Exposure controls/personal protection

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Identity</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
</tr>
<tr>
<td>65996-93-2</td>
<td>Coal Tar Pitch</td>
<td>0.2 mg/m³</td>
</tr>
<tr>
<td>111-40-7</td>
<td>Coal tar pitch volatiles (benzene soluble fraction)</td>
<td>N.E.</td>
</tr>
<tr>
<td>80-05-7</td>
<td>Diethylenetriamine (DETA)</td>
<td>1 ppm</td>
</tr>
<tr>
<td>84852-15-3</td>
<td>Phenol, 4,4’-(1-methylene)bis-</td>
<td>N.E.</td>
</tr>
<tr>
<td>68683-29-4</td>
<td>para-Nonylphenol</td>
<td>N.E.</td>
</tr>
<tr>
<td>140-31-8</td>
<td>ATBN Polymer</td>
<td>N.E.</td>
</tr>
<tr>
<td>140-31-8</td>
<td>n-Aminoethylpiperazine</td>
<td>N.E.</td>
</tr>
</tbody>
</table>

**Recommended monitoring procedures**

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

**Engineering measures**

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Hygiene measures**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are located in the work area.

**Respiratory**

Use a properly fitted, air-purifying or air-supplied respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Eyes**

Chemical splash goggles and full face shield are recommended.

**Skin**

Impervious gloves made of Neoprene, Butyl Rubber or Nitrile Rubber should be used. Wear additional protective clothing to prevent skin contact. This may include aprons, chemical resistant boots, and chemical resistant suits. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

### 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>pH</td>
<td>Alkaline (pH &gt; 7.0)</td>
</tr>
</tbody>
</table>
Boiling point: Not determined
Freezing Point: Not determined
Specific gravity: 1.09
Vapor pressure: < 5.17 mmHg at 70 °F (21 °C)
Odor threshold: Tar and ammonia-like odor
Solubility in water: Slightly soluble. Reacts slowly with water to form ammonia.
Evaporation rate: Not Determined; anticipated to be slower than Butyl Acetate.
Vapor density: Not Determined; anticipated to be heavier than air (>1)

10. Stability and reactivity

Stability: The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid: Sparks, open flames, and other sources of ignition. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations.

Materials to avoid: Reactive or incompatible with the following materials: Oxidizing agents. Reaction with peroxides may result in violent decomposition of peroxide, possibly creating an explosion. Sodium hypochlorite. Organic acids (i.e. acetic acid, citric acid etc.) and mineral acids. Nitrous acid and other nitrosating agents. Reactive metals (e.g. sodium, calcium, zinc etc.). Materials reactive with hydroxyl compounds. Heat and/or water and atmospheric moisture will degrade product quality.

Other hazards: Curing reaction may release significant heat when mixed with Part A.

Hazardous decomposition products: Decomposition products upon combustion may include the following materials: Nitrogen Oxides, Nitric Acid, Ammonia, Carbon Dioxide; Carbon Monoxide, Nitrosamines.

11. Toxicological information

Acute toxicity
- LD50 Oral Rat 2200 mg/kg (Acute Toxicity Estimate)
- LD50 Dermal Rabbit 2127 mg/kg (Acute Toxicity Estimate)
- LC50 Inhalation Rat 1.36 mg/L (aerosol/mist); (ATE)

Skin Irritation: Prolonged exposure may cause destruction of skin tissue. Severe skin irritation.

Eye Irritation: Severe eye irritation.

Sensitization: May cause sensitization by skin contact.

Mutagenicity: There is evidence of mutagenic potential.

Reproductive Toxicity: May damage fertility or the unborn child.

Carcinogenicity Classification
- IARC: Group 1: Human Carcinogen (Coal tar pitch)
- NTP: Known Human Carcinogen (Coal tar pitch)
- OSHA: Not regulated as a carcinogen
- ACGIH: A1 Known human carcinogen (Coal tar pitch)
12. Ecological information

Component Aquatic Eco-toxicity
para-Nonylphenol
(CAS # 84852-15-3)

Fish
Fathead Minnow: Acute LC50: 0.1383 mg/L (96 Hours)
Rainbow Trout, Donaldson Trout: Acute LC50: 0.14 - 0.23 mg/L (96 Hours)

Daphnia
Acute EC50: 0.035 mg/L (48 Hours)

Algae
Acute LC50: 0.0563 mg/L (72 Hours)

Environmental effects
Expected to be very toxic to aquatic organisms. May cause long term adverse effects in the environment. Partially biodegradable. This product has potential to bioaccumulate.

13. Disposal considerations

Waste disposal
The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

The data provided in this section is for information only and may not be specific to each package size or mode of transport. Apply the appropriate regulations to properly classify your shipment for transportation.

International transport regulations

<table>
<thead>
<tr>
<th>Regulatory information</th>
<th>UN/NA number</th>
<th>Proper shipping name</th>
<th>Classes/*PG</th>
<th>Reportable Quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFR</td>
<td>UN3267</td>
<td>Corrosive Liquid, Basic, Organic, N.O.S. (Diethylenetriamine, para-Nonylphenol)</td>
<td>8, PGIII</td>
<td>292 Lbs.**</td>
</tr>
<tr>
<td>TDG</td>
<td>UN3267</td>
<td>Corrosive Liquid, Basic, Organic, N.O.S. (Diethylenetriamine, para-Nonylphenol) Marine Pollutant</td>
<td>8, PGIII</td>
<td>292 Lbs.**</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>UN3267</td>
<td>Corrosive Liquid, Basic, Organic, N.O.S. (Diethylenetriamine, para-Nonylphenol) Marine Pollutant</td>
<td>8, PGIII</td>
<td>292 Lbs.**</td>
</tr>
<tr>
<td>IATA</td>
<td>UN3267</td>
<td>Corrosive Liquid, Basic, Organic, N.O.S. (Diethylenetriamine, para-Nonylphenol) Marine Pollutant</td>
<td>8, PGIII</td>
<td>292 Lbs.**</td>
</tr>
</tbody>
</table>

*PG : Packing group

LIMITED QUANTITIES: When limited quantities of this product are offered for transportation, except by air, and packaged in proper combination packages with individual inner containers of less than 5.0 L (1.3 gallons) net capacity each, this product may ship as LIMITED QUANTITY. Placarding rules may still apply. The IMDG Code does not require Limited Quantity packages to be identified or labeled as Marine Pollutants when shipped by sea/ocean.

**REPORTABLE QUANTITY (RQ): Individual containers of this product that exceed the RQ of 292 Lbs. (113.4 kg) net weight, contain the following substances above their individual RQ limits:
Benzo(b)fluoranthene (CAS # 205-99-2); Substance RQ = 1 Lb.
Benzo(a)pyrene (CAS # 50-32-8); Substance RQ = 1 Lb.
### 15. Regulatory information

**US regulations**

**HCS Classification**

When used for its intended purpose, this material is classified as hazardous in accordance with OSHA 29CFR 1910.1200.

**U.S. Federal regulations**

**SARA Title III, Section 311/312 Classification**

- Immediate (Acute) health hazard
- Long-Term (Chronic) health hazard

**SARA Title III, Section 313 - Supplier Notification**

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.

- Phenol, 4,4’-(1-methylethylidene)bis- (CAS # 80-05-7)
- Polycyclic Aromatic Hydrocarbons (PAC’s) (Category N590); 2.4 – 4.2 wt%
- Phenanthrene (CAS # 85-01-8); 0.5 – 1.5 wt%
- Naphthalene (CAS # 91-20-3); 0.4 – 0.7 wt%

**SARA Section 302 Extremely Hazardous Substances**

- Pyrene (CAS # 129-00-0); 0.5 – 1.0 wt%.

**State regulations**

**Massachusetts RTK Substances**

- Coal Tar Pitch (CAS # 65996-93-2)
- Diethylenetriamine (CAS # 111-40-0)
- Phenol, 4,4’-(1-methylethylidene)bis- (CAS # 80-05-7)
- Phenanthrene (CAS # 85-01-8)
- Naphthalene (CAS # 91-20-3)

**New Jersey RTK Hazardous Substances**

- Coal Tar Pitch (CAS # 65996-93-2)
- Diethylenetriamine (CAS # 111-40-0)
- Phenol, 4,4’-(1-methylethylidene)bis- (CAS # 80-05-7)
- Phenanthrene (CAS # 85-01-8)
- Naphthalene (CAS # 91-20-3)

**Pennsylvania RTK Hazardous Substances**

- Coal Tar Pitch (CAS # 65996-93-2)
- Diethylenetriamine (CAS # 111-40-0)
- Phenol, 4,4’-(1-methylethylidene)bis- (CAS # 80-05-7)
- Phenanthrene (CAS # 85-01-8)
- Naphthalene (CAS # 91-20-3)

**California Prop. 65:** WARNING: This product contains the following chemical(s) known to the State of California to cause cancer:

- Benzo(b)fluoranthene (CAS # 205-99-2)
- Benzo(a)pyrene (CAS # 50-32-8)
- Dibenz(a,h)anthracene (CAS # 53-70-3)
- Benz[a]anthracene (CAS # 56-55-3)
- Naphthalene (CAS # 91-20-3)
- Indeno(1,2,3-cd)pyrene (CAS # 193-39-5)
- Chrysene (CAS # 218-01-9)

**California Prop. 65:** WARNING: This product contains the following chemical(s) known to the State of California to be a reproductive toxin:

- None known.
International regulations

Chemical inventories
- Europe inventory: All components are listed or exempted.
- Australia inventory (AICS): All components are listed or exempted.
- Canada inventory: All components are listed or exempted.
- Japan inventory: Not on inventory.
- China inventory (IECSC): All components are listed or exempted.
- Korea inventory: All components are listed or exempted.
- Philippines inventory (PICCS): All components are listed or exempted.
- United States inventory (TSCA 8b): All components are listed or exempted.

Canada WHMIS

Hazard Classification
- Class D-2A: Very Toxic Material Causing Other Toxic Effects
- Class D-2B: Toxic Material Causing Other Toxic Effects
- Class E: Corrosive Material

Restriction of Hazardous Substances (RoHS)
- This product is RoHS compliant and does not contain lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE) at levels greater than the maximum concentration values specified in Directive 2011/65/EU (dated 8 June, 2011) of the European Parliament and of the Council of the European Union.

16. Other information

Hazardous Material Information System III (U.S.A.)
- Health: 3
- Flammability: 1
- Physical hazards: 0
- Personal Protection: X

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. HMIS® ratings are to be used with a fully implemented HMIS® program.

Prepared by: Polyset Company, Inc.
Date of issue: March 8, 2016
Date of printing: March 8, 2016

Notice to reader
The information provided herein was believed by Polyset Company, Inc. ("Polyset") to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. All products supplied by Polyset are subject to Polyset's terms and conditions of sale. POLYSET MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY POLYSET, except that the product shall conform to Polyset's specifications. Nothing contained herein constitutes an offer for the sale of any product.
Ply-Primer

Ply-Primer is a unique two-component, low-viscosity modified elastomeric priming agent developed for use with the Ply-Krete® brands of elastomeric concrete. Ply-Primer has excellent adhesion to steel, concrete, and asphalt. The lower viscosity allows for a more user-friendly application with better wetting properties.

Key Features
- Excellent adhesion to various substrates
- Excellent thermal shock resistance
- Excellent moisture resistance
- Flexible and resilient
- Resistant to freeze-thaw changes
- Very good solvent and chemical resistance

Mixing
It is recommended to wear protective gloves and splash-resistant glasses. If not using the full unit, stir the individual components prior to mixing together. Mix according to specified mixing ratio with low-speed drill for 60–90 seconds.

Application
For best results, sandblast all surfaces to receive the Ply-Primer. New concrete should cure 80% of designed strength prior to application. Steel surfaces should be sandblasted to SSPC-10, near white finish, immediately before the application of the Ply-Primer. Apply by brush or spray at a minimum of 20 mils thick (80 sq. ft./gal); avoid puddling.

Shelf Life: Two years in the original, unopened containers. Packed in 1 gallon cans; 3 units per case.

Storage: Store between 60 -100°F; keep from freezing.

Physical Data

<table>
<thead>
<tr>
<th>Appearance @ 25°C</th>
<th>Part “A”</th>
<th>Part “B”</th>
<th>Mixed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packaging</td>
<td>3/4 Gal</td>
<td>3/4 Gal</td>
<td>1.5 Gal</td>
</tr>
<tr>
<td>Color</td>
<td>Straw</td>
<td>Black</td>
<td>Black</td>
</tr>
<tr>
<td>Viscosity, cps</td>
<td>700 ± 200</td>
<td>8000 ± 1000</td>
<td>-</td>
</tr>
<tr>
<td>Wt./gal., lb</td>
<td>9.2 ± 0.2</td>
<td>9.0 ± 0.2</td>
<td>-</td>
</tr>
<tr>
<td>Yield</td>
<td>120 sq. ft/ 1.5 Gal Unit</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mix Ratio</th>
<th>Part “A”</th>
<th>Part “B”</th>
<th>By Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 “A”</td>
<td>98 “B”</td>
<td>By Weight</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cure</th>
<th>Gel Time @ 25°C</th>
<th>15-25 Min.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Time</td>
<td>Placement of Ply-Krete®; 0-3 Hrs @ 25°C</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Strengths with Binder Only</th>
<th>Percent Elongation</th>
<th>ASTM D638</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength, psi</td>
<td>2,100 ± 200</td>
<td>ASTM D638</td>
</tr>
<tr>
<td>Tear Strength, pli</td>
<td>375 ± 25</td>
<td>ASTM D624</td>
</tr>
<tr>
<td>Shore D Hardness</td>
<td>65 ± 5</td>
<td>ASTM D2240</td>
</tr>
<tr>
<td>Bond Strength</td>
<td></td>
<td>Tex 618-J</td>
</tr>
<tr>
<td>To Dry Concrete</td>
<td>500 psi</td>
<td></td>
</tr>
<tr>
<td>To Wet Concrete</td>
<td>300 psi</td>
<td></td>
</tr>
</tbody>
</table>

For additional installation instructions, please refer to the “Ply-Krete® Installation Instructions Technical Bulletin”. For health and safety information, please refer to the MSDS.

KEEP OUT OF REACH OF CHILDREN