SAFETY DATA SHEET – SET

UPR Pole Repair™ No Flow Type UPR-NF Kit

Product ID numbers: UPR-NFKIT4, UPR-NFKIT12, UPR-NF6B10

UPR-NFXXX (where XXX is the package code.)

Date Compiled: October 11, 2018

Supplier/Manufacturer:
American Polywater Corporation
11222 - 60th Street North
Stillwater, MN 55082 USA
Tel: 1-651-430-2270
Email: sds@polywater.com

Emergency telephone numbers
INFOTRAC: 1-800-535-5053 (USA) 1-352-323-3500 (INT’L)

This product is a kit or a multi-part product with independent components. An SDS for each component is included. Do not separate SDSs.

Contains

UPR-NF PoleRepair NO FLOW Part A SDS
UPR-NF PoleRepair NO FLOW Part B SDS

SDSs are classified according to USA OSHA 29 CFR 1910.1200 (2012) and Canada HPR (SOR/2015-17; WHMIS 2015).

Each Kit may or may not contain all SDS components

The information and recommendations contained herein are believed to be reliable. However, the supplier makes no warranties, express or implied, concerning the use of this product. The buyer must determine conditions of safe usage and assumes all risk and liability in handling this product.
SAFETY DATA SHEET

1. Identification of the substance/mixture and of the company

1.1 Product identifier

**Product Name:**
UPR Pole Repair™ No Flow
UPR-NF (Part A) 10841A

Product ID numbers: UPR-NFKIT4, UPR-NFKIT12, UPR-NF6B10;
UPR-NFXXX (where XXX is the package code.)

1.2 Relevant identified uses of the mixture and uses advised against

Identified uses: Sealant, wood fill and pole repair, two-part material
List of advices against: Not applicable.

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer:
American Polywater Corporation
11222 - 60th Street North
Stillwater, MN 55082 USA
Tel: 1-651-430-2270
Email: sds@polywater.com

1.4 Emergency telephone numbers

USA (supplier)
+1-651-430-2270
INFOTRAC: 1-800-535-5053 (USA) 1-352-323-3500 (INT'L)

2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to USA OSHA 29 CFR 1910.1200 (2012) and Canada HPR (SOR/2015-17; WHMIS 2015).  
Acute Toxicity, Cat 4; H332
Skin Irritation, Cat 2; H315
Eye Irritation, Cat 2A; H319
Respiratory Sensitization, Cat 1; H335
Skin Sensitization, Cat 1; H317
Target Organ Toxicity (single exposure), Cat 3
Target Organ Toxicity (repeated exposure), Cat 2; H373

2.2 Label elements

Contains: Polymeric diphenylmethane diisocyanate; 4,4’-Diphenylmethane diisocyanate (MDI)

Pictograms:

Signal word: Danger
Hazard Statements:
H332 Harmful if inhaled.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated inhalative exposure.

Precautionary Statements:
P260 Do not breathe fumes.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves, protective clothing and eye protection.
P284 In case of inadequate ventilation wear respiratory protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P304 + P340 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical attention.
P337 + P313 If eye irritation persists: Get medical attention.
P342 + P311 If experiencing respiratory symptoms: Call a poison center or doctor.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container in accordance with local and national regulations.

Notes: 4,4’-methylenediphenyl diisocyanate (MDI) has not been designated as a carcinogen by IARC, NTP, ACGIH, OSHA, or the EPA. There are inadequate human carcinogenicity data, and only limited animal data. Additionally, the IARC Working Group noted that tumorigenic effects observed in animals may be attributed to non-specific particle effect (IARC monograph 71). We have not classified substance as a carcinogen, but recommend that users avoid inhalation of vapor above exposure limits.

2.3 Other hazards: No information available.

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>EC #</th>
<th>Wt. %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymeric diphenylmethane diisocyanate</td>
<td>9016-87-9</td>
<td>30 - 60</td>
<td></td>
</tr>
<tr>
<td>4,4’-Diphenylmethane diisocyanate (MDI)</td>
<td>101-68-8</td>
<td>202-966-0</td>
<td>30 - 60</td>
</tr>
<tr>
<td>Phosphoric Acid, Triethyl Ester</td>
<td>78-40-0</td>
<td>201-114-5</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

4. First Aid Measures

4.1 Description of first aid measures

Eye Contact: Immediately flush eyes with large quantity of water for 15 minutes. Seek medical attention.

Skin Contact: Remove contaminated clothing; flush skin thoroughly with soap and water. If irritation occurs, seek medical attention.

Inhalation (Breathing): If irritation of nose or throat develops, move to fresh air. If irritation persists, seek medical attention.

Ingestion (Swallowing): If swallowed, rinse mouth and drink plenty of water. Do not induce vomiting. If patient is conscious, wash out mouth with water. Never give anything by mouth to an unconscious person. Do not leave victim unattended. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

May cause allergic skin and respiratory reaction. Refer to Section 11 for more information.

4.3 Indication of immediate medical attention and special treatment needed.

No information available.

5. Firefighting Measures
5.1 Extinguishing media:
Water Fog, Carbon Dioxide, Dry Chemical or Foam.

5.2 Special hazards arising from the substance or mixture
Hazardous decomposition and by-products:
Carbon monoxide, hydrogen cyanide, nitrogen oxides, aromatic isocyanates, gases/vapors.

5.3 Advice for firefighters
Full protective equipment including self-contained breathing apparatus should be used. Water spray may be used to cool fire exposed container to prevent pressure build-up and possible auto-ignition or rupture.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:
Wear full protective clothing, including appropriate respiratory protection.

6.2 Environmental precautions:
Prevent from entering waterways.

6.3 Methods materials for containment and cleaning up:
Spills expected to be small quantities. Collect excess material with absorbents or wipe with dry towels. Wash with a dilute ammonia solution.

6.4 Reference to other sections:
Refer to Sections 4, 5, 8, and 13 for more information.

7. Handling and Storage

7.1 Precautions for safe handling
Use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with the product. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Wash thoroughly after handling. Wash contaminated clothing before reuse. For industrial or professional use only.

7.2 Conditions for safe storage, including incompatibilities
Keep containers cool, dry, and away from sources of ignition. Keep cartridges capped and sealed. Protect from freezing. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

7.3 Specific end uses
See technical data sheet on this product for further information.

8. Exposure Controls / Personal Protection

8.1 Control Parameters
Exposure limits and recommendations:

<table>
<thead>
<tr>
<th>Country/Source</th>
<th>Component</th>
<th>Long-term exposure limit 8 hr OEL, TWA</th>
<th>Short-term (ceiling) exposure limit – 15 min</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA – ACGIH TWA</td>
<td>4,4’-Diphenylmethane diisocyanate (MDI)</td>
<td>0.005 ppm</td>
<td>0.02 ppm</td>
</tr>
<tr>
<td>USA – OSHA OEL</td>
<td>4,4’-Diphenylmethane diisocyanate (MDI)</td>
<td>--</td>
<td>0.02 ppm</td>
</tr>
<tr>
<td>USA – NIOSH REL</td>
<td>4,4’-Diphenylmethane diisocyanate (MDI)</td>
<td>0.005 ppm</td>
<td>0.02 ppm</td>
</tr>
<tr>
<td>Canada (Ontario)</td>
<td>4,4’-Diphenylmethane diisocyanate (MDI)</td>
<td>0.005 ppm</td>
<td>0.02 ppm</td>
</tr>
<tr>
<td>Canada (Québec)</td>
<td>4,4’-Diphenylmethane diisocyanate (MDI)</td>
<td>0.005 ppm</td>
<td>--</td>
</tr>
<tr>
<td>Canada (British Columbia)</td>
<td>4,4’-Diphenylmethane diisocyanate (MDI)</td>
<td>0.005 ppm</td>
<td>0.01 ppm</td>
</tr>
<tr>
<td>Canada (Alberta)</td>
<td>4,4’-Diphenylmethane diisocyanate (MDI)</td>
<td>0.005 ppm.</td>
<td>--</td>
</tr>
</tbody>
</table>
Canada (Alberta) Polymeric diphenylmethane diisocyanate 0.005 ppm --
Canada (Saskatchewan) 4,4’-Diphenylmethane diisocyanate (MDI) 0.005 ppm 0.015 ppm
Canada (Yukon) 4,4’-Diphenylmethane diisocyanate (MDI) 0.02 ppm --

ACGIH, OSHA and NIOSH have not established any OELs for Polymeric diphenylmethane diisocyanate (pMDI)

8.2 Exposure controls

Respiratory protection:
Use with adequate ventilation to keep vapor concentration below acceptable limits. Observe OSHA standard 29 CFR 1910-94, 1910.107, 1910.108. Product dispensed through a static mixer and used as directed emits less than 0.001 ppm MDI vapor as tested by OSHA 47. Ventilation is not required for standard use. If product is use in a way that ventilation is not adequate, use approved chemical/mechanical filters designed to remove a combination of particulate and organic vapors in open and restricted areas. Use approved airline type respirators or hoods in confined areas. Observe OSHA standard 29 CFR 1910.134.

Protective gloves:
The use of chemically resistant gloves is recommended to prevent skin contact. Suitable materials include neoprene, butyl rubber, Viton, Buna N, and chlorinated polyethylene.

Eye protection:
Safety glasses recommended.

Other protective equipment:
Wear suitable protective clothing. Use protective cream if skin contact is likely. Remove and wash contaminated clothing before reuse. Discard contaminated shoes.

9. Physical and Chemical

9.1 Information of basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Brown liquid</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Faint, aromatic odor</td>
</tr>
<tr>
<td>pH</td>
<td>Does not apply</td>
</tr>
<tr>
<td>Freezing point</td>
<td>3°C</td>
</tr>
<tr>
<td>Boiling point</td>
<td>200°C</td>
</tr>
<tr>
<td>Flash point</td>
<td>428°F / 220°C (open cup)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Does not apply</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>.00016 mm Hg @ 20°C</td>
</tr>
<tr>
<td>Vapor density (Air = 1)</td>
<td>1.22 g/cm³</td>
</tr>
<tr>
<td>Specific gravity (H₂O = 1)</td>
<td>1.22 @ 25°C</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Reacts</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>&gt; 250°C (1112°F)</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>200 mPas @ 25°C / 77°F</td>
</tr>
</tbody>
</table>

9.2 Other Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volatiles (Weight %)</td>
<td>0%</td>
</tr>
<tr>
<td>VOC Content</td>
<td>0 g/l</td>
</tr>
</tbody>
</table>

10. Stability and Reactivity
10.1 Reactivity:
Reacts with water, reacts with substances which contain active hydrogen.

10.2 Chemical stability:
Stable

10.3 Possibility of hazardous reactions:
Hazardous reactions will not occur under normal transport or storage conditions.

10.4 Conditions to avoid:
Avoid freezing, high temperatures, flame, high humidity and water contamination.

10.5 Incompatible materials:
Water, alcohols, amines, acids, alkalis, metal compounds.

10.6 Hazardous decomposition products:
Carbon monoxide, hydrogen cyanide, nitrogen oxides, aromatic isocyanates, gases/vapors.

11. Toxicological Information

11.1 Information on toxicological effects:
Acute toxicity
Eye contact:
Direct eye contact with material or vapors may cause eye irritation.

Skin contact:
Persons with pre-existing skin disorders may be more susceptible to skin irritation from this material. Allergic skin reaction symptoms include redness, swelling, blistering and itching.

Irritation and Sensitization Potential:
Product may be irritating to skin and eyes.

Inhalation (Breathing):
Material has low vapor pressure and inhalation hazard is expected to be minimal. Vapor exposure may cause irritation of the nose and throat. Symptoms may include burning sensation, coughing and shortness of breath, or other signs of respiratory distress. May cause allergic respiratory reaction below exposure guideline in susceptible individuals.

Ingestion:
Ingestion may cause irritation of the gastrointestinal tract.

Toxicity to Animals:
4,4'-Diphenylmethane diisocyanate (MDI):
- LD50 (oral rat) >2,000 mg/kg
- LD50 (dermal rabbit) >9,400 mg/kg
- LC10 (inhl rat) 2.24 mg/m³, 1 hour, aerosol form

Aspiration Hazard:
No aspiration hazard expected.

Chronic Exposure:
Reproductive Toxicity: Not available.
Mutagenicity: Not available.
Teratogenicity: Not available.
Specific Target Organ Toxicity (STOT):
Contains material which causes damage to the upper respiratory tract.
Toxicologically Synergistic Products: Not available.
Carcinogenic Status: This substance contains components identified as IARC Category 3, not classifiable.
4,4'-methylene diisocyanate (MDI) has not been designated as a carcinogen by IARC, NTP, ACGIH, OSHA, or the EPA. There are inadequate human carcinogenicity data, and only limited animal data. Additionally, the IARC Working Group noted that tumorigenic effects observed in animals may
be attributed to non-specific particle effect (IARC monograph 71). We have not classified substance as a carcinogen, but recommend that users avoid inhalation of vapor above exposure limits.

Respiratory/Skin Sensitization
May cause sensitization by inhalation and skin contact.

12. Ecological Information

12.1 Toxicity:

Aquatic Toxicity:
4,4’-Diphenylmethane disiocyanate (MDI): LC₅₀ (96 hr): > 1,000 mg/l Brachydanio rerio (fish)
4,4’-Diphenylmethane disiocyanate (MDI): EC₅₀ (24 hr): > 1,000 mg/l Daphnia magna (invertebrate)
4,4’-Diphenylmethane disiocyanate (MDI): EC₅₀ (72 hr): 1,640 mg/l Green algae (aquatic plants)

12.2 Persistence and degradability:
Elimination information:
<10% BOD of the ThOD (28d)
(OECD Guideline 302 C, aerobic, activated sludge)
Under test conditions, poorly biodegradable.

12.3 Bioaccumulation potential:
Accumulation in organisms is not to be expected.

12.4 Mobility in soil:
Adsorption to solid soil phase is not expected

12.5 Results of PBT and vPvB Assessment:
This product is not, nor does it contain a substance that is a PBT or vPvB.

12.6 Other adverse effects:
None known.

13. Disposal Considerations
Dispose of product in accordance with National and Local Regulations.

14. Transport Information

UN Number: Not Listed
UN Proper shipping name: Not Applicable
Transport hazard class(es): Not Applicable
Packing group: Not Applicable
Environmental hazards: None known
Special precautions: None known
TDG: Not Regulated
ICAO/IATA-DGR: Not Regulated
IMDG: Not Regulated
ADR/RID: Not Regulated

15. Regulatory Information

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

USA Federal and State
All components are listed on the TSCA inventory.

<table>
<thead>
<tr>
<th>Hazard Categories for SARA Section 311/312 Reporting</th>
<th>Acute</th>
<th>Chronic</th>
<th>Fire</th>
<th>Pressure</th>
<th>Reactive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CERCLA/SARA Sec 302 Hazardous Substance RQ
SARA Sec. 313 EHS TPQ
Toxic Release
NFPA Ratings:

Health: 2
Fire: 1
Reactivity: 1

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel during spill, fire or similar emergencies. Hazard ratings are based on physical and toxic properties of combustion or decomposition.

California Proposition 65
This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm or has been assessed to be below OEHHA Safe Harbor exposure levels required for labeling.

European Union
Product complies with the communication requirements of REACH Regulation (EC) No. 1907/2006. All components are listed on the European Inventory of Existing Chemical Substances (EINECS). Contains no substance on the REACH candidate list ≥ 0.1% SCL. Does not contain notified substances from the ELINCS List, Directive 92/32/EEC. Meets labeling and kitting requirements found in Entry 56 of Annex XVII.

Canada
All components are listed on the DSL inventory.
This product has been classified according to the hazard criteria of the CPR.

Australia
All components are listed on the AICS.
Contains 4,4'-Diphenylmethane diisocyanate (MDI) listed on the National Pollutant Inventory (NPI)
Hazardous according to criteria of NOHSC Australia.

15.2 Chemical Safety Assessment
No chemical safety assessment has been carried out for the mixture by the supplier.

16. Other Information

Abbreviations and acronyms:
OSHA = Occupational Safety and Health Administration
CLP = Classification, Labeling and Packaging Regulation
STOT = Specific Target Organ Toxicity
LD50 = Median Lethal Dose
DNEL = Derived No Effect Level
ACGIH = American Conference of Governmental Industrial Hygienists
TSCA = Toxic Substances Control Act (USA)
DSL = Domestic Substances List (Canada)
AICS = Australian Inventory of Chemical Substances

Mixture classification according to Regulation (EC) No 1272/2008:

<table>
<thead>
<tr>
<th>Classification Procedure</th>
<th>Mixture classification according to Regulation (EC) No 1272/2008:</th>
</tr>
</thead>
<tbody>
<tr>
<td>H332</td>
<td>Harmful if inhaled.</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H334</td>
<td>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated inhalative exposure.</td>
</tr>
</tbody>
</table>
Revision Number: 7 NA  
Supersedes: August 9, 2017  
Indication of Changes: Section 3, 15 updated; format updates and additional California Proposition 65 information. Written in accordance with the provisions of OSHA 1910.1200 App D (2012) and Canada HPR (SOR/2015-17) (WHMIS 2015). (GHS format)

The information and recommendations contained herein are believed to be reliable. However, the supplier makes no warranties, express or implied, concerning the use of this product. The buyer must determine conditions of safe usage and assumes all risk and liability in handling this product.
1. Identification of the substance/mixture and of the company

1.1 Product identifier

Product Name: UPR Pole Repair™ No Flow
UPR-NF (Part B) 10841B

Product ID numbers: UPR-NFKIT4, UPR-NFKIT12, UPR-NF6B10;
UPR-NFXXX (where XXX is the package code.)

1.2 Relevant identified uses of the mixture and uses advised against

Identified uses: Sealant, wood fill and pole repair, two-part material
List of advices against: Not applicable.

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer:
American Polywater Corporation
11222 - 60th Street North
Stillwater, MN 55082 USA
Tel: 1-651-430-2270
Email: sds@polywater.com

1.4 Emergency telephone numbers
INFOTRAC: 1-800-535-5053 (USA) 1-352-323-3500 (INT'L)

2. Hazards Identification

2.1 Classification of the substance or mixture
Classification according to USA OSHA 29 CFR 1910.1200 (2012) and Canada HPR (SOR/2015-17; WHMIS 2015).
Skin Irritation, Cat 2; H315
Skin Sens, Cat 1, H317
Eye Irritation, Cat 2A; H319
Carc, Cat 2, H351
Target Organ Toxicity (repeated exposure), Cat 2; H373

2.2 Label elements

Contains:
Diethyltoluenediamine (DETDA), 4,4’-methylenebis(2-ethylaniline), Modified Isophoronediamine

Pictograms:
Signal word: Warning
Hazard Statements:
H315 Causes skin irritation.
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation.
H351 Suspected of causing cancer
H373 May cause damage to organs through prolonged or repeated inhalative exposure.

Precautionary Statements:
3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>EC #</th>
<th>Wt. %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyether polyol mixture</td>
<td>Proprietary</td>
<td>--</td>
<td>60 - 100</td>
</tr>
<tr>
<td>Diethyltoluenediamine (DETDA)</td>
<td>68479-98-1</td>
<td>270-877-4</td>
<td>1 - 5</td>
</tr>
<tr>
<td>4,4’-methylenebis(2-ethylaniline)</td>
<td>19900-65-3</td>
<td>243-420-1</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Modified Isophoronediamine</td>
<td>90530-15-7</td>
<td>292-053-3</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Tertiary amine compounds</td>
<td>Proprietary</td>
<td>--</td>
<td>0.1 - 1</td>
</tr>
</tbody>
</table>

4. First Aid Measures

4.1 Description of first aid measures

Eye Contact: Immediately flush eyes with large quantity of water for 15 minutes. Seek medical attention.

Skin Contact: Remove contaminated clothing; flush skin thoroughly with soap and water. If irritation occurs, seek medical attention.

Inhalation (Breathing): If irritation of nose or throat develops, move to fresh air. If irritation persists, seek medical attention.

Ingestion (Swallowing): If swallowed, get medical attention. Do not induce vomiting. If patient is conscious, wash out mouth with water. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of immediate medical attention and special treatment needed

No information available.

5. Firefighting Measures

5.1 Extinguishing media:

Water Fog, Carbon Dioxide, Dry Chemical or Foam.

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition and by-products:

Carbon monoxide, carbon dioxide, nitrogen oxides, nitric acid, ammonia, aldehydes, nitrosamine, and silicon dioxide.

5.3 Advice for firefighters

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be used to cool fire exposed container to prevent pressure build-up and possible auto-ignition or rupture.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:
Wear full protective clothing, including appropriate respiratory protection.

6.2 Environmental precautions:
Prevent from entering waterways.

6.3 Methods materials for containment and cleaning up:
Spills expected to be small quantities. Collect excess material with absorbents or wipe with dry towels. Wash with a dilute ammonia solution.

6.4 Reference to other sections:
Refer to Sections 4, 5, 8, and 13 for more information.

7. Handling and Storage

7.1 Precautions for safe handling
Use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with the product. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Wash thoroughly after handling. Wash contaminated clothing before reuse. For industrial or professional use only.

7.2 Conditions for safe storage, including incompatibilities
Keep containers dry and away from excessive heat. Keep cartridges capped and sealed. Protect from freezing. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

7.3 Specific end uses
See technical data sheet on this product for further information.

8. Exposure Controls / Personal Protection

8.1 Control parameters
Exposure limits and recommendations:
Contains no components with established Occupational Exposure Limit (OEL) values.

8.2 Exposure controls
Respiratory protection:
Use with adequate ventilation to keep vapor concentration below acceptable limits.

Protective gloves:
The use of chemically resistant gloves is recommended to prevent skin contact. Suitable materials include neoprene, butyl rubber, Viton, Buna N, and chlorinated polyethylene.

Eye protection:
Safety glasses recommended.

Other protective equipment:
Use protective cream if skin contact is likely. Remove and wash contaminated clothing before reuse. Discard contaminated shoes.

9. Physical and Chemical

9.1 Information of basic physical and chemical properties
Appearance: Light brown liquid
Odor threshold: Mild amine odor
pH: Not available
Freezing point: Not available
Boiling point: Not available
Flash point: >360°F / >182°C (PMCC)
Evaporation rate: Not available
Flammability (solid, gas): Does not apply
Upper/lower flammability or explosive limits: Not available
Vapor pressure: Not available
Vapor density (Air = 1): >1
Specific gravity (H₂O = 1): Not available
Solubility in water: Slightly soluble
Partition coefficient: n-octanol/water: Not available
Auto-ignition temperature: Not available
Decomposition temperature: Not available
Viscosity: Not available

9.2 Other Information
Volatiles (Weight %): 0%
VOC Content: 0 g/l

10. Stability and Reactivity

10.1 Reactivity:
No dangerous reaction known under conditions of normal use.

10.2 Chemical stability:
Stable

10.3 Possibility of hazardous reactions:
Hazardous reactions will not occur under normal transport or storage conditions.

10.4 Conditions to avoid:
Avoid freezing, high temperatures, and moisture.

10.5 Incompatible materials:
Isocyanates, strong oxidizing agents and strong bases.

10.6 Hazardous decomposition products:
Carbon monoxide, carbon dioxide, and nitrous oxides.

11. Toxicological Information

11.1 Information on toxicological effects:
Acute toxicity
Eye contact:
Direct eye contact with material or vapors may cause eye irritation.
Skin contact:
May cause skin irritation
Irritation and Sensitization Potential:
May cause skin sensitization.
Inhalation (Breathing):
May cause respiratory irritation.
Ingestion:
Harmful if swallowed.
Toxicity to Animals:
Diethyltoluenediamine (DETDA):
LD₅₀ (oral rat) 738 mg/kg
LD₅₀ (dermal rabbit) >2,000 mg/kg

Aspiration Hazard:
No aspiration hazard expected.
Chronic Exposure:
12. Ecological Information

12.1 Aquatic Toxicity: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
12.2 Persistence and degradability: No information available.
12.3 Bioaccumulation potential: No information available.
12.4 Mobility in soil: No information available.
12.5 Results of PBT and vPvB Assessment: This product is not, nor does it contain a substance that is a PBT or vPvB.
12.6 Other adverse effects: None known.

13. Disposal Considerations

Do not release to the environment. Dispose of product in accordance with National and Local Regulations.

14. Transport Information

UN Number: Not Listed
UN Proper shipping name: Not Applicable
Transport hazard class(es): Not Applicable
Packing group: Not Applicable
Environmental hazards: None known
Special precautions: None known
TDG: Not Regulated
ICAO/IATA-DGR: Not Regulated
IMDG: Not Regulated
ADR/RID: Not Regulated

15. Regulatory Information

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

USA Federal and State
All components are listed on the TSCA inventory.

Hazard Categories for SARA Section 311/312 Reporting

<table>
<thead>
<tr>
<th>Acute</th>
<th>Chronic</th>
<th>Fire</th>
<th>Pressure</th>
<th>Reactive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

This product contains diethyltoluenediamine (DETDA) (CAS 68479-98-1) which is subject to TSCA 12(b), Section 4 export notification.
Pro

Product Name: UPR Pole Repair™ No Flow Compound Type NF (Part B)  
Revision Date: September 26, 2018

<table>
<thead>
<tr>
<th>Components</th>
<th>CERCLA/SARA Sec 302</th>
<th>SARA Sec. 313</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hazardous Substance RQ</td>
<td>EHS TPQ</td>
</tr>
</tbody>
</table>

The components of UPR Pole Repair No Flow - Part B are not affected by these Superfund regulations.

NFPA Ratings:  
Health: 2  
Fire: 1  
Reactivity: 0

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel during spill, fire or similar emergencies. Hazard ratings are based on physical and toxic properties of combustion or decomposition.

California Proposition 65  
This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm or has been assessed to be below OEHHA Safe Harbor exposure levels required for labeling.

European Union  
Product complies with the communication requirements of REACH Regulation (EC) No. 1907/2006. All components are listed on the European Inventory of Existing Chemical Substances (EINECS). Contains no substance on the REACH candidate list ≥ 0.1% SCL. Does not contain notified substances from the ELINCS List, Directive 92/32/EEC. Contains no REACH substances with Annex XVII restrictions.

Canada  
All components are listed on the DSL inventory.  
This product has been classified according to the hazard criteria of the CPR.

Australia  
All components are listed on the AICS.

15.2 Chemical Safety Assessment  
No chemical safety assessment has been carried out for the mixture by the supplier.

16. Other Information

Abbreviations and acronyms:  
OSHA = Occupational Safety and Health Administration  
CLP = Classification, Labeling and Packaging Regulation  
STOT = Specific Target Organ Toxicity  
LD₅₀ = Median Lethal Dose  
DNEL = Derived No Effect Level  
ACGIH = American Conference of Governmental Industrial Hygienists  
TSCA = Toxic Substances Control Act (USA)  
DSL = Domestic Substances List (Canada)  
AICS = Australian Inventory of Chemical Substances

Mixture classification according to Regulation (EC) No 1272/2008:  
Classification Procedure

| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H351 | Suspected of causing cancer. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

Revision Date: September 26, 2018  
Revision Number: 6 NA  
Supersedes: August 16, 2017  
Other: Not Applicable

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Indication of Changes: Section 3, 15 updated; format updates and additional California Proposition 65 information. Written in accordance with the provisions of OSHA 1910.1200 App D (2012) and Canada HPR (SOR/2015-17) (WHMIS 2015). (GHS format)

The information and recommendations contained herein are believed to be reliable. However, the supplier makes no warranties, express or implied, concerning the use of this product. The buyer must determine conditions of safe usage and assumes all risk and liability in handling this product.