SECTION 1 - MANUFACTURER'S IDENTIFICATION

Product Name: PERMA-GLOSS WHITE BASE  Product Code: A4-1564W
Manufacturer's Name: Induron Protective Coatings, LLC
Address: 3333 Richard Arrington Blvd. N.
          Birmingham, Alabama 35234
Emergency Phone: 1-800-424-9300
Information Phone: (205)324-9584

Section 2 - Composition / Information on Ingredients

GHS Ratings:

<table>
<thead>
<tr>
<th></th>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable liquid</td>
<td>3</td>
<td>Flash point &gt;= 23°C and &lt;= 60°C (140°F)</td>
</tr>
<tr>
<td>Oral Toxicity</td>
<td>Acute Tox. 3</td>
<td>Oral&gt;50+&lt;=300mg/kg</td>
</tr>
<tr>
<td>Skin corrosive</td>
<td>2</td>
<td>Reversible adverse effects in dermal tissue, Draize score: &gt;= 2.3 &lt; 4.0 or persistent inflammation</td>
</tr>
<tr>
<td>Eye corrosive</td>
<td>2A</td>
<td>Eye irritant: Subcategory 2A, Reversible in 21 days</td>
</tr>
<tr>
<td>Skin sensitizer</td>
<td>1</td>
<td>Skin sensitizer</td>
</tr>
<tr>
<td>Mutagen</td>
<td>1B</td>
<td>Known to produce heritable mutations in human germ cellsSubcategory 1B, Positive results: In vivo heritable germ cell tests in mammals, Human germ cell tests, In vivo somatic mutagenicity tests, combined with some evidence of germ cell mutagenicity</td>
</tr>
<tr>
<td>Carcinogen</td>
<td>1A</td>
<td>Known Human Carcinogen Based on human evidence</td>
</tr>
<tr>
<td>Reproductive toxin</td>
<td>1A</td>
<td>Based on human evidence</td>
</tr>
</tbody>
</table>

GHS Hazards

- H226 Flammable liquid and vapour.
- H301 Toxic if swallowed
- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation
- H340 May cause genetic defects
- H350 May cause cancer
- H360 May damage fertility or the unborn child

GHS Precautions

- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P210 Keep away from heat/sparks/open flames/hot surfaces - No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash equipment and contaminated skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P281 Use personal protective equipment as required
- P321 Wash contaminated skin, follow Physician's instructions for treatment.
- P330 Rinse mouth
- P362 Take off contaminated clothing and wash before reuse
Signal Word: Danger

Preexisting skin, eye, and respiratory disorders may be aggravated by exposure to this product. Impaired kidney and liver functions from preexisting disorders may be aggravated by exposure to this product.

Kidney damage may be evidenced by changes in urine output, urine appearance, or edema (swelling from fluid retention). Liver damage may be evidenced by loss of appetite, jaundice and sometimes pain in the upper abdomen on the right side.

### Section 3 - Hazards Identification

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS number</th>
<th>Weight Concentration %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium Dioxide Colorant</td>
<td>13463-67-7</td>
<td>28.83%</td>
</tr>
<tr>
<td>Benzene, 1-chloro-4-(trifluoromethyl)-</td>
<td>98-56-6</td>
<td>11.36%</td>
</tr>
<tr>
<td>Mixed Xylenes</td>
<td>1330-20-7</td>
<td>8.38%</td>
</tr>
<tr>
<td>2-ETHYL BENZENE</td>
<td>100-41-4</td>
<td>7.25%</td>
</tr>
<tr>
<td>Kaolin</td>
<td>1332-58-7</td>
<td>2.38%</td>
</tr>
<tr>
<td>DIPROPYLENE GLYCOL n-BUTYL ETHER</td>
<td>29911-28-2</td>
<td>1.94%</td>
</tr>
<tr>
<td>Feldspar</td>
<td>68476-25-5</td>
<td>1.71%</td>
</tr>
<tr>
<td>Microcrystalline silica 98.5-99.0%</td>
<td>14808-60-7</td>
<td>0.19%</td>
</tr>
<tr>
<td>Naptha(Pet), light arom.</td>
<td>64742-95-6</td>
<td>0.11%</td>
</tr>
</tbody>
</table>

### Section 4 - First Aid Measures

**INHALATION** - If product solids are inhaled either as dust or in the form of a spray mist, remove the person from exposure immediately. If breathing is difficult, irregular, or has stopped, start resuscitation; call a physician. Administer oxygen if a qualified operator is available.

**EYE CONTACT** - In case of eye contact, flush the eyes with water for fifteen (15) minutes. If contact lenses are worn, quickly remove them, then flush the eyes with water. Have a physician examine the eyes.

**SKIN CONTACT** - In case of skin contact, remove contaminated clothing. Flush the skin with large amounts of water, then wash the skin with soap and water.
INGESTION - If material is ingested, seek immediate medical attention. If vomiting occurs spontaneously, keep the head below the hips to prevent aspiration of liquid into the lungs.

Notes to Physician: No data found

Section 5 - Fire Fighting Measures

Flash Point: 26 C (79 F)
LEL: 1.00 UEL: 20.00

Flammable Product

EXTINGUISHING MEDIA: Use carbon dioxide (CO2), "alcohol" foam, dry chemical systems, water fog, water spray.

UNUSUAL FIRE OR EXPLOSION HAZARDS: Under normal storage conditions this product is stable.

HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon and hydrocarbons

FIRE FIGHTING: If evacuation of personnel is necessary, evacuate to an upwind area. Decontaminate personnel and equipment with a water wash-down after fire and smoke exposure. Use water spray to cool unopened containers.

Section 6 - Accidental Release Measures

SPILL AND LEAK PROCEDURES: Spill supervisor - Ensure cleanup personnel wear all appropriate Personal Protective Equipment (PPE), including respiratory protection. Remove all ignition sources. Keep nonessential personnel away from the contaminated area.

SMALL SPILLS: Ventilate the contaminated area. Using nonsparking tools, mix the appropriate sorbent into the spilled material. Use an absorbent like sawdust for aqueous, waterborne, and solvent-borne coatings.

Collect the saturated sorbent and transfer it into a covered container. Steel containers are acceptable for all wastes except wastes which contain acid. Use suitable plastic containers for acid-bearing wastes. Wet absorbent materials with water to prevent spontaneous combustion with alkyd type formulas.

Dispose of the waste in compliance with all Federal, state, regional, and local regulations.

LARGE SPILLS: Prevent this material from entering sewers and watercourses by diking or impounding the spilled material. Advise authorities if the product has entered or may enter, sewers, watercourses, or extensive land areas.

Ventilate the contaminated area. Using nonsparking tools, mix the appropriate sorbent into the spilled material. Use an absorbent like sawdust for aqueous, waterborne, and solvent-borne coatings.

Collect the saturated sorbent and transfer it into a covered container. Steel containers are acceptable for all wastes except wastes which contain acid. Use suitable plastic containers for acid-bearing wastes. Wet absorbent with water for alkyd type spills.

Section 7 - Handling and Storage

HANDLING PRECAUTIONS: Wear all appropriate Personal Protective Equipment (PPE). Wear respiratory protection or ensure adequate ventilation at all times as vapors can accumulate in confined or poorly ventilated areas. Use the product in a manner which minimizes splashes and/or the creation of dust. Keep containers closed when not in use.

Do not handle or store material near heat, sparks, open flames, or other sources of ignition. Store at room temperatures, i.e., 40 to 95 F (4 to 35 C).

STORAGE: Prevent from freezing. Do not store above 120 F (49 C).

Store only in original containers.

REGULATORY REQUIREMENTS: No data found.

Section 8 - Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Chemical Name / CAS No.</th>
<th>OSHA Exposure Limits</th>
<th>ACGIH Exposure Limits</th>
<th>Other Exposure Limits</th>
</tr>
</thead>
</table>

SDS for: A4-1564W

Printed: 8/1/2016 at 3:51:21PM
Titanium Dioxide Colorant 13463-67-7

| 15 mg/m³ TWA (total dust) | 10 mg/m³ TWA | Not Established |

Benzene, 1-chloro-4-(trifluoromethyl)-98-56-6

| Not Established | Not Established | Not Established |

Mixed Xylenes 1330-20-7

| 100 ppm TWA; 435 mg/m³ TWA | 150 ppm STEL 100 ppm TWA | Not Established |

2-ETHYL BENZENE 100-41-4

| 100 ppm TWA; 435 mg/m³ TWA | 20 ppm TWA | NIOSH: 100 ppm TWA; 435 mg/m³ TWA 125 ppm STEL; 545 mg/m³ STEL |

Kaolin 1332-58-7

| 15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction) | 2 mg/m³ TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction) | NIOSH: 10 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable dust) |

DIPROPYLENE GLYCOL n-BUTYL ETHER 29911-28-2

| Not Established | Not Established | Not Established |

Feldspar 68476-25-5

| Not Established | Not Established | Not Established |

Microcrystalline silica 98.5-99.0% 14808-60-7

| .05 mg/m³ TWA | 0.025 mg/m³ TWA (respirable fraction) | NIOSH: 0.05 mg/m³ TWA (respirable dust) |

Naptha(Pet), light arom. 64742-95-6

| Not Established | Not Established | Not Established |

**ENGINEERING:** Ensure processing (curing) ovens are properly vented to prevent the introduction of processing fumes into the workplace. Use explosion-proof equipment and good manufacturing practice.

**VENTILATION:** Use only with adequate ventilation, i.e., ventilation in compliance with occupational exposure limits.

**ADMINISTRATIVE CONTROLS:** No data found.

**PROTECTIVE EQUIPMENT:** Wear splash goggles. If extra protection is required, wear a face shield over the splash goggles. Face shields are effective only if worn in addition to splash goggles.

Wear a chemical-resistant, butyl-rubber apron and other protective clothing, as deemed appropriate, to avoid skin contact with material.

Wear chemical-resistant gloves (butyl rubber or neoprene). Protective gloves should be inspected frequently and discarded when they exhibit cuts, tears, pinholes, or signs of excessive wear.

**CONTAMINATED EQUIPMENT:** Dispose of the waste in compliance with all Federal, state, regional, and local regulations.

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**Section 9 - Physical and Chemical Properties**

This mixture typically exhibits the following properties under normal circumstances:

<table>
<thead>
<tr>
<th>Appearance: N/A</th>
<th>Odor: N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor Pressure: 6.7 mmHg</td>
<td>Odor threshold: N/A</td>
</tr>
<tr>
<td>Vapor Density: 4.3</td>
<td>pH: N/A</td>
</tr>
<tr>
<td>DENSITY 12.70</td>
<td>Melting point: N/A</td>
</tr>
<tr>
<td>Freezing point: N/A</td>
<td>Solubility: N/A</td>
</tr>
<tr>
<td>Boiling range: 136°C</td>
<td>Flash point: 79 F, 26 C</td>
</tr>
<tr>
<td>Evaporation rate: N/A</td>
<td>Flammability: N/A</td>
</tr>
</tbody>
</table>
Explosive Limits: N/A
Autoignition temperature: N/A
Viscosity: N/A
Partition coefficient (n-octanol/water): N/A
Decomposition temperature: N/A
Coating VOC Lb/Gal 2.72

Section 10 - Stability and Reactivity

Stability: This product is stable under normal storage conditions.
STABLE
Avoid strong oxidizing agents.
This mixture is likely to exhibit the following combustion products: Carbon oxides.
Hazardous polymerization will not occur.

Section 11 - Toxicological Information

Mixture Toxicity
Oral Toxicity LD50: 126mg/kg
Inhalation Toxicity LC50: 91mg/L

Routes of Entry:

Exposure to this material may affect the following organs:

<table>
<thead>
<tr>
<th>Eyes</th>
<th>Lungs</th>
<th>Central Nervous System</th>
<th>Skin</th>
<th>Respiratory System</th>
</tr>
</thead>
</table>

Effects of Overexposure

Carcinogenicity: The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing).

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Description</th>
<th>% Weight</th>
<th>Carcinogen Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-41-4</td>
<td>2-ETHYL BENZENE</td>
<td>7.25</td>
<td>2-ETHYL BENZENE: IARC: Possible human carcinogen OSHA: listed</td>
</tr>
<tr>
<td>64742-95-6</td>
<td>Naptha(Pet), light arom.</td>
<td>0.107</td>
<td>Naptha(Pet), light arom.: EU REACH: Present (P)</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>Microcrystalline silica 98.5-99.0%</td>
<td>0.190</td>
<td>Microcrystalline silica 98.5-99.0%: NIOSH: potential occupational carcinogen IARC: Human carcinogen OSHA: listed</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>Titanium Dioxide Colorant</td>
<td>28.83</td>
<td>Titanium Dioxide Colorant: NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed</td>
</tr>
</tbody>
</table>

Section 12 - Ecological Information

Ecological information: No data found.

Component Ecotoxicity
Benzene, 1-chloro-4-(trifluoromethyl)- 48 Hr EC50 Daphnia magna: 3.68 mg/L
Mixed Xylenes 96 Hr LC50 Pimephales promelas: 13.4 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 2.661 - 4.093 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 13.5 - 17.3 mg/L; 96 Hr LC50 Lepomis macrochirus: 13.1 - 16.5 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 7.711 - 9.591 mg/L [static]; 96 Hr LC50 Pimephales promelas: 23.53 - 29.97 mg/L [static]; 96 Hr LC50 Cyprinus carpio: 780 mg/L [semi-static]; 96 Hr LC50 Cyprinus carpio: >780 mg/L; 96 Hr LC50 Poecilia reticulata: 30.26 - 40.75 mg/L [static]; 48 Hr EC50 water flea: 3.82 mg/L; 48 Hr LC50 Gammarus lacustris: 0.6 mg/L

2-ETHYL BENZENE 96 Hr LC50 Oncorhynchus mykiss: 11.0 - 18.0 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 4.2 mg/L [semi-static]; 96 Hr LC50 Pimephales promelas: 7.55 - 11 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 32 mg/L [static]; 96 Hr LC50 Pimephales promelas: 9.1 - 15.6 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 9.6 mg/L [static]; 48 Hr EC50 Daphnia magna: 1.8 - 2.4 mg/L; 72 Hr EC50 Pseudokirchneriella subcapitata: 4.6 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: >438 mg/L; 72 Hr EC50 Pseudokirchneriella subcapitata: 2.6 - 11.3 mg/L [static]; 96 Hr EC50 Pseudokirchneriella subcapitata: 1.7 - 7.6 mg/L [static]

DIPROPYLENE GLYCOL n-BUTYL ETHER 96 Hr LC50 Poecilia reticulata: 841 mg/L [static] 48 Hr EC50 Daphnia magna: 6.14 mg/L

Naptha(Pet), light arom. 96 Hr LC50 Oncorhynchus mykiss: 9.22 mg/L 48 Hr EC50 Daphnia magna: 6.14 mg/L

Section 13 - Disposal Considerations
As the US EPA, state, regional, and other regulatory agencies may have jurisdiction over the disposal of your facility's hazardous waste, it is incumbent upon you, the hazardous waste generator, to learn of and satisfy all the requirements which affect you. Dispose of the hazardous waste at a properly licensed and permitted disposal site or facility. Ensure conformity to all applicable hazardous waste disposal regulations.

The US EPA Hazardous Waste Numbers which follow are applicable to this unadulterated product if the product enters the "waste stream." Refer to Title 40 of the Code of Federal Regulations, Part 261 (40 CFR 261). This part of the Code identifies solid wastes which are subject to regulation under various sections of the Code and which are subject to the notification requirements of Section 3010 of the Resource Conservation and Recovery Act (RCRA).

Section 14 - Transport Information

<table>
<thead>
<tr>
<th>Agency</th>
<th>Proper Shipping Name</th>
<th>UN Number</th>
<th>Packing Group</th>
<th>Hazard Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>PAINT</td>
<td>1263</td>
<td>III</td>
<td>3</td>
</tr>
<tr>
<td>IATA</td>
<td>PAINT</td>
<td>1263</td>
<td>III</td>
<td>3</td>
</tr>
</tbody>
</table>

15: Regulatory Information
State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING! This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

- 14808-60-7 Microcrystalline silica 98.5-99.0% 0.19%
- 100-41-4 2-ETHYL BENZENE 7.25%
- 13463-67-7 Titanium Dioxide Colorant 28.83%

HAZARDOUS AIR POLLUTANTS
- 100-41-4 2-ETHYL BENZENE
- 1330-20-7 Mixed Xylenes
MASSACHUSETTS RIGHT TO KNOW
14808-60-7 Microcrystalline silica 98.5-99.0% 0.19 %
1332-58-7 Kaolin 2.38 %
100-41-4 2-ETHYL BENZENE 7.25 %
1330-20-7 Mixed Xylenes 8.38 %
13463-67-7 Titanium Dioxide Colorant 28.83 %

NEW JERSEY RIGHT TO KNOW
14808-60-7 Microcrystalline silica 98.5-99.0% 0.19 %
1332-58-7 Kaolin 2.38 %
100-41-4 2-ETHYL BENZENE 7.25 %
1330-20-7 Mixed Xylenes 8.38 %
13463-67-7 Titanium Dioxide Colorant 28.83 %

PENNSYLVANIA RIGHT TO KNOW
14808-60-7 Microcrystalline silica 98.5-99.0% 0.19 %
1332-58-7 Kaolin 2.38 %
100-41-4 2-ETHYL BENZENE 7.25 %
1330-20-7 Mixed Xylenes 8.38 %
13463-67-7 Titanium Dioxide Colorant 28.83 %

CHEMICAL LIST FOR SARA 311
1330-20-7 Mixed Xylenes

CHEMICAL LIST FOR SARA 313
100-41-4 2-ETHYL BENZENE
1330-20-7 Mixed Xylenes

Country | Regulation | All Components Listed
---|---|---
EU Risk Phrases

Safety Phrase
- None
SECTION 1- MANUFACTURER'S IDENTIFICATION

Product Name: PERMA-GLOSS CLEAR BASE    Product Code: A4-1567C
Manufacturer's Name: Induron Protective Coatings, LLC
Address: 3333 Richard Arrington Blvd. N.
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<tbody>
<tr>
<td>Flammable liquid</td>
<td>2</td>
<td>Flash point &lt; 23°C and initial boiling point &gt; 35°C (95°F)</td>
</tr>
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<td>Skin corrosive</td>
<td>2</td>
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<td>Mutagen</td>
<td>1B</td>
<td>Known to produce heritable mutations in human germ cellsSubcategory 1B, Positive results: In vivo heritable germ cell tests in mammals, Human germ cell tests, In vivo somatic mutagenicity tests, combined with some evidence of germ cell mutagenicity</td>
</tr>
<tr>
<td>Carcinogen</td>
<td>1B</td>
<td>Presumed Human Carcinogen, Based on demonstrated animal carcinogenicity</td>
</tr>
<tr>
<td>Reproductive toxin</td>
<td>1A</td>
<td>Based on human evidence</td>
</tr>
</tbody>
</table>

GHS Hazards

- H225 Highly flammable
- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation
- H340 May cause genetic defects
- H350 May cause cancer
- H360 May damage fertility or the unborn child

GHS Precautions

- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P210 Keep away from heat/sparks/open flames/hot surfaces - No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash equipment and contaminated skin thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P281 Use personal protective equipment as required
- P321 Wash contaminated skin, follow Physician's instructions for treatment.
- P362 Take off contaminated clothing and wash before reuse
- P363 Wash contaminated clothing before reuse
- P302+P352 IF ON SKIN: Wash with soap and water
Preexisting skin, eye, and respiratory disorders may be aggravated by exposure to this product. Impaired kidney and liver functions from preexisting disorders may be aggravated by exposure to this product.

Kidney damage may be evidenced by changes in urine output, urine appearance, or edema (swelling from fluid retention). Liver damage may be evidenced by loss of appetite, jaundice and sometimes pain in the upper abdomen on the right side.

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<th>CAS number</th>
<th>Weight Concentration %</th>
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<td>98-56-6</td>
<td>27.08%</td>
</tr>
<tr>
<td>Mixed Xylenes</td>
<td>1330-20-7</td>
<td>8.97%</td>
</tr>
<tr>
<td>2-ETHYL BENZENE</td>
<td>100-41-4</td>
<td>7.88%</td>
</tr>
<tr>
<td>Dimethyl Carbonate</td>
<td>616-38-6</td>
<td>7.35%</td>
</tr>
<tr>
<td>Kaolin</td>
<td>1332-58-7</td>
<td>5.92%</td>
</tr>
<tr>
<td>Naptha(Pet), light arom.</td>
<td>64742-95-6</td>
<td>0.15%</td>
</tr>
</tbody>
</table>

### Section 4 - First Aid Measures

**INHALATION** - If product solids are inhaled either as dust or in the form of a spray mist, remove the person from exposure immediately. If breathing is difficult, irregular, or has stopped, start resuscitation; call a physician. Administer oxygen if a qualified operator is available.

**EYE CONTACT** - In case of eye contact, flush the eyes with water for fifteen (15) minutes. If contact lenses are worn, quickly remove them, then flush the eyes with water. Have a physician examine the eyes.

**SKIN CONTACT** - In case of skin contact, remove contaminated clothing. Flush the skin with large amounts of water, then wash the skin with soap and water.

**INGESTION** - If material is ingested, seek immediate medical attention. If vomiting occurs spontaneously, keep the head below the hips to prevent aspiration of liquid into the lungs.

Notes to Physician: No data found

### Section 5 - Fire Fighting Measures

Flash Point: 17 C (63 F)
Section 6 - Accidental Release Measures

SPILL AND LEAK PROCEDURES: Spill supervisor - Ensure cleanup personnel wear all appropriate Personal Protective Equipment (PPE), including respiratory protection. Remove all ignition sources. Keep nonessential personnel away from the contaminated area.  
SMALL SPILLS: Ventilate the contaminated area. Using nonsparking tools, mix the appropriate sorbent into the spilled material. Use an absorbent like sawdust for aqueous, waterborne, and solvent-borne coatings.  

Collect the saturated sorbent and transfer it into a covered container. Steel containers are acceptable for all wastes except wastes which contain acid. Use suitable plastic containers for acid-bearing wastes. Wet absorbent materials with water to prevent spontaneous combustion with alkyd type formulas.  

Dispose of the waste in compliance with all Federal, state, regional, and local regulations.  
LARGE SPILLS: Prevent this material from entering sewers and watercourses by diking or impounding the spilled material. Advise authorities if the product has entered or may enter, sewers, watercourses, or extensive land areas.  
Ventilate the contaminated area. Using nonsparking tools, mix the appropriate sorbent into the spilled material. Use an absorbent like sawdust for aqueous, waterborne, and solvent-borne coatings.  

Collect the saturated sorbent and transfer it into a covered container. Steel containers are acceptable for all wastes except wastes which contain acid. Use suitable plastic containers for acid-bearing wastes. Wet absorbent with water for alkyd type spills.  

Section 7 - Handling and Storage

HANDLING PRECAUTIONS: Wear all appropriate Personal Protective Equipment (PPE). Wear respiratory protection or ensure adequate ventilation at all times as vapors can accumulate in confined or poorly ventilated areas. Use the product in a manner which minimizes splashes and/or the creation of dust. Keep containers closed when not in use. Do not handle or store material near heat, sparks, open flames, or other sources of ignition. Store at room temperatures, i.e., 40 to 95 F (4 to 35 C).  
STORAGE: Prevent from freezing. Do not store above 120 F (49 C).  

Store only in original containers.  

REGULATORY REQUIREMENTS: No data found.  

Section 8 - Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Chemical Name / CAS No.</th>
<th>OSHA Exposure Limits</th>
<th>ACGIH Exposure Limits</th>
<th>Other Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene, 1-chloro-4-(trifluoromethyl)-98-56-6</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
<tr>
<td>Mixed Xylenes 1330-20-7</td>
<td>100 ppm TWA; 435 mg/m3 TWA</td>
<td>150 ppm STEL 100 ppm TWA</td>
<td>Not Established</td>
</tr>
</tbody>
</table>
### Section 9 - Physical and Chemical Properties

This mixture typically exhibits the following properties under normal circumstances:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>7.6 mmHg</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>3.7</td>
</tr>
<tr>
<td>Density</td>
<td>N/A</td>
</tr>
<tr>
<td>DENSITY</td>
<td>10.28</td>
</tr>
<tr>
<td>Freezing point</td>
<td>N/A</td>
</tr>
<tr>
<td>Boiling range</td>
<td>91°C</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>N/A</td>
</tr>
<tr>
<td>Explosive Limits</td>
<td>N/A</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>N/A</td>
</tr>
<tr>
<td>Viscosity</td>
<td>N/A</td>
</tr>
<tr>
<td>Odor</td>
<td>N/A</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>N/A</td>
</tr>
<tr>
<td>pH</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting point</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility</td>
<td>N/A</td>
</tr>
<tr>
<td>Flash point</td>
<td>63 F, 17 C</td>
</tr>
<tr>
<td>Flammability</td>
<td>N/A</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>N/A</td>
</tr>
<tr>
<td>(n-octanol/water)</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>N/A</td>
</tr>
<tr>
<td>Coating VOC Lb/Gal</td>
<td>2.81</td>
</tr>
</tbody>
</table>

### Section 10 - Stability and Reactivity

Stability: This product is stable under normal storage conditions.

STABLE

Avoid strong oxidizing agents.

This mixture is likely to exhibit the following combustion products: Carbon oxides.
Hazardous polymerization will not occur.

**Section 11 - Toxicological Information**

**Mixture Toxicity**
- Inhalation Toxicity LC50: 61mg/L

**Routes of Entry:**

Exposure to this material may affect the following organs:

<table>
<thead>
<tr>
<th>Eyes</th>
<th>Central Nervous System</th>
<th>Skin</th>
<th>Respiratory System</th>
</tr>
</thead>
</table>

**Effects of Overexposure**

**Carcinogenicity:** The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing).

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Description</th>
<th>% Weight</th>
<th>Carcinogen Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-41-4</td>
<td>2-ETHYL BENZENE</td>
<td>7.88</td>
<td>2-ETHYL BENZENE: IARC: Possible human carcinogen OSHA: listed</td>
</tr>
<tr>
<td>64742-95-6</td>
<td>Naptha(Pet), light arom.</td>
<td>0.146</td>
<td>Naptha(Pet), light arom.: EU REACH: Present (P)</td>
</tr>
</tbody>
</table>

**Section 12 - Ecological Information**

Ecological information: No data found.

**Component Ecotoxicity**

**Benzene, 1-chloro-4-(trifluoromethyl)-**

- 48 Hr EC50 Daphnia magna: 3.68 mg/L

**Mixed Xylenes**

- 96 Hr LC50 Pimephales promelas: 13.4 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 2.661 - 4.093 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 13.5 - 17.3 mg/L; 96 Hr LC50 Lepomis macrochirus: 7.711 - 9.591 mg/L [static]; 96 Hr LC50 Pimephales promelas: 23.53 - 29.97 mg/L [static]; 96 Hr LC50 Cyprinus carpio: 780 mg/L [semi-static]; 96 Hr LC50 Cyprinus carpio: >780 mg/L; 96 Hr LC50 Poecilia reticulata: 30.26 - 40.75 mg/L [static]
- 48 Hr EC50 water flea: 3.82 mg/L; 48 Hr LC50 Gammarus lacustris: 0.6 mg/L

**2-ETHYL BENZENE**

- 96 Hr LC50 Oncorhynchus mykiss: 11.0 - 18.0 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 4.2 mg/L [semi-static]; 96 Hr LC50 Pimephales promelas: 7.55 - 11 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 32 mg/L [static]; 96 Hr LC50 Pimephales promelas: 9.1 - 15.6 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 9.6 mg/L [static]
- 48 Hr EC50 Daphnia magna: 1.8 - 2.4 mg/L
- 72 Hr EC50 Pseudokirchneriella subcapitata: 4.6 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: >438 mg/L; 72 Hr EC50 Pseudokirchneriella subcapitata: 2.6 - 11.3 mg/L [static]; 96 Hr EC50 Pseudokirchneriella subcapitata: 1.7 - 7.6 mg/L [static]

**Naptha(Pet), light arom.**

- 96 Hr LC50 Oncorhynchus mykiss: 9.22 mg/L
- 48 Hr EC50 Daphnia magna: 6.14 mg/L

**Section 13 - Disposal Considerations**

As the US EPA, state, regional, and other regulatory agencies may have jurisdiction over the disposal of your facility’s hazardous waste, it is incumbent upon you, the hazardous waste generator, to learn of and satisfy all the requirements which affect you. Dispose of the hazardous waste at a properly licensed and permitted disposal site or
facility. Ensure conformity to all applicable hazardous waste disposal regulations.

The US EPA Hazardous Waste Numbers which follow are applicable to this unadulterated product if the product enters the "waste stream." Refer to Title 40 of the Code of Federal Regulations, Part 261 (40 CFR 261). This part of the Code identifies solid wastes which are subject to regulation under various sections of the Code and which are subject to the notification requirements of Section 3010 of the Resource Conservation and Recovery Act (RCRA).

### Section 14 - Transport Information

<table>
<thead>
<tr>
<th>Agency</th>
<th>Proper Shipping Name</th>
<th>UN Number</th>
<th>Packing Group</th>
<th>Hazard Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>PAINT</td>
<td>1263</td>
<td>II</td>
<td>3</td>
</tr>
<tr>
<td>IATA</td>
<td>PAINT</td>
<td>1263</td>
<td>II</td>
<td>3</td>
</tr>
</tbody>
</table>

### 15: Regulatory Information

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING! This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

- 100-41-4  2-ETHYL BENZENE  7.88 %

HAZARDOUS AIR POLLUTANTS
- 100-41-4  2-ETHYL BENZENE
- 1330-20-7  Mixed Xylenes

MASSACHUSETTS RIGHT TO KNOW
- 1332-58-7  Kaolin  5.92 %
- 616-38-6  Dimethyl Carbonate  7.35 %
- 100-41-4  2-ETHYL BENZENE  7.88 %
- 1330-20-7  Mixed Xylenes  8.97 %

NEW JERSEY RIGHT TO KNOW
- 1332-58-7  Kaolin  5.92 %
- 616-38-6  Dimethyl Carbonate  7.35 %
- 100-41-4  2-ETHYL BENZENE  7.88 %
- 1330-20-7  Mixed Xylenes  8.97 %

PENNSYLVANIA RIGHT TO KNOW
- 1332-58-7  Kaolin  5.92 %
- 616-38-6  Dimethyl Carbonate  7.35 %
- 100-41-4  2-ETHYL BENZENE  7.88 %
- 1330-20-7  Mixed Xylenes  8.97 %

CHEMICAL LIST FOR SARA 311
- 1330-20-7  Mixed Xylenes
- 1330-20-7  Mixed Xylenes

CHEMICAL LIST FOR SARA 313
- 100-41-4  2-ETHYL BENZENE
- 1330-20-7  Mixed Xylenes
EU Risk Phrases

Safety Phrase

- None

16: OTHER INFORMATION

Hazardous Material Information System (HMIS)

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
<th>PERSONAL PROTECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>*</td>
<td>2</td>
<td>3</td>
<td>G</td>
</tr>
</tbody>
</table>

HMIS & NFPA Hazard Rating

Legend

* = Chronic Health Hazard
0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH

Date Prepared: 8/1/2016

National Fire Protection Association (NFPA)

Flammability

Health

Instability

Special

Reviewer Revision
SECTION 1- MANUFACTURER'S IDENTIFICATION

Product Name: PERMAGLOSS ACTIVATOR  Product Code: Q4-1214
Trade Name: DESMODUR 3390
Manufacturer's Name: Induron Protective Coatings, LLC
Address: 3333 Richard Arrington Blvd. N.
          Birmingham, Alabama 35234
Emergency Phone: 1-800-424-9300
Information Phone: (205)324-9584

Section 2 - Composition / Information on Ingredients

GHS Ratings:

Flammable liquid  3  Flash point >= 23°C and <= 60°C (140°F)
Inhalation Toxicity  Acute Tox. 4  Gases>2500+<=5000ppm, Vapors>10+<=20mg/l,
                          Dusts&mist>1+<=5mg/l
Skin sensitizer  1  Skin sensitizer
Organ toxin single
  exposure  3  Transient target organ effects- Narcotic effects- Respiratory tract irritation

GHS Hazards

H226  Flammable liquid and vapour.
H317  May cause an allergic skin reaction
H332  Harmful if inhaled
H335  May cause respiratory irritation

GHS Precautions

P210  Keep away from heat/sparks/open flames/hot surfaces - No smoking.
P233  Keep container tightly closed.
P241  Use explosion-proof electrical equipment.
P242  Use only non-sparking tools.
P243  Take precautionary measures against static discharge.
P261  Avoid breathing dust/fume/gas/mist/vapours/spray.
P271  Use only outdoors or in a well-ventilated area
P272  Contaminated work clothing should not be allowed out of the workplace.
P280  Wear protective gloves/protective clothing/eye protection/face protection.
P281  Use personal protective equipment as required
P285  In case of inadequate ventilation wear respiratory protection
P312  Call a POISON CENTER or doctor/physician if you feel unwell
P363  Wash contaminated clothing before reuse
P302/P335  IF ON SKIN: Wash with soap and water
P303/P361/P353  IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
               Rinse skin with water/shower
P304/P341  IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
P308/P313  IF exposed or concerned: Get medical advice/attention
P333/P313  If skin irritation or a rash occurs: Get medical advice/attention
P370/P378  In case of fire: Use CO2, water spray, foam, or dry chemical to extinguish.
P405  Store locked up
P403/P235  Store in a well ventilated place. Keep cool
P501  Dispose of contents/container in accordance to appropriate regulations and laws.

Signal Word: Warning
Preexisting skin, eye, and respiratory disorders may be aggravated by exposure to this product. Impaired kidney and liver functions from preexisting disorders may be aggravated by exposure to this product.

Kidney damage may be evidenced by changes in urine output, urine appearance, or edema (swelling from fluid retention). Liver damage may be evidenced by loss of appetite, jaundice and sometimes pain in the upper abdomen on the right side.

### Section 3 - Hazards Identification

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS number</th>
<th>Weight Concentration %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homopolymer of Hexamethylene Diisocyanate.</td>
<td>28182-81-2</td>
<td>80.00% - 90.00%</td>
</tr>
<tr>
<td>n-BUTYL ACETATE</td>
<td>123-86-4</td>
<td>1.00% - 5.00%</td>
</tr>
<tr>
<td>Naphta(Pet), light arom.</td>
<td>64742-95-6</td>
<td>1.00% - 5.00%</td>
</tr>
<tr>
<td>Mixed Xylenes</td>
<td>1330-20-7</td>
<td>0.10% - 1.00%</td>
</tr>
<tr>
<td>Benzene,1,3,5-trimethyl</td>
<td>108-67-8</td>
<td>0.10% - 1.00%</td>
</tr>
<tr>
<td>HEXAMETHYLENE DIISOCYANATE</td>
<td>822-06-0</td>
<td>0.10% - 1.00%</td>
</tr>
<tr>
<td>* 1,2,4-TRIMETHYL BENZENE</td>
<td>95-63-6</td>
<td>0.10% - 1.00%</td>
</tr>
</tbody>
</table>

### Section 4 - First Aid Measures

#### INHALATION
- If product solids are inhaled either as dust or in the form of a spray mist, remove the person from exposure immediately. If breathing is difficult, irregular, or has stopped, start resuscitation; call a physician. Administer oxygen if a qualified operator is available.

#### EYE CONTACT
- In case of eye contact, flush the eyes with water for fifteen (15) minutes. If contact lenses are worn, quickly remove them, then flush the eyes with water. Have a physician examine the eyes.

#### SKIN CONTACT
- In case of skin contact, remove contaminated clothing. Flush the skin with large amounts of water, then wash the skin with soap and water.

#### INGESTION
- If material is ingested, seek immediate medical attention. If vomiting occurs spontaneously, keep the head below the hips to prevent aspiration of liquid into the lungs.

Notes to Physician: No data found

### Section 5 - Fire Fighting Measures

- Flash Point: 47 C (117 F)
- LEL: 1.00
- UEL: 8.00

Flammable Product

**EXTINGUISHING MEDIA:** Use carbon dioxide (CO2), "alcohol" foam, dry chemical systems. Direct water application may cause violent frothing.

**UNUSUAL FIRE OR EXPLOSION HAZARDS:** Moisture can cause significant pressure increases in the packaging, leading to pressure caused leaks or even explosions.

**HAZARDOUS COMBUSTION PRODUCTS:** Oxides of carbon, hydrocarbons, hydrogen cyanide, oxides of sulfur and or zinc.

**FIRE FIGHTING:** If evacuation of personnel is necessary, evacuate to an upwind area. Decontaminate personnel and equipment with a water wash-down after fire and smoke exposure. Use water spray to cool unopened containors.

**FIRE FIGHTING:** If evacuation of personnel is necessary, evacuate to an upwind area. Decontaminate personnel
and equipment with a water wash-down after fire and smoke exposure.

**Section 6 - Accidental Release Measures**

**SPILL AND LEAK PROCEDURES:** Spill supervisor - Ensure cleanup personnel wear all appropriate Personal Protective Equipment (PPE), including respiratory protection. Remove all ignition sources. Keep nonessential personnel away from the contaminated area.

**SMALL SPILLS:** Ventilate the contaminated area. Using nonsparking tools, mix the appropriate sorbent into the spilled material. Use an absorbent like sawdust for aqueous, waterborne, and solvent-borne coatings.

Collect the saturated sorbent and transfer it into a covered container. Steel containers are acceptable for all wastes except wastes which contain acid. Use suitable plastic containers for acid-bearing wastes. Wet absorbent materials with water to prevent spontaneous combustion with alkyd type formulas.

Dispose of the waste in compliance with all Federal, state, regional, and local regulations.

**LARGE SPILLS:** Prevent this material from entering sewers and watercourses by diking or impounding the spilled material. Advise authorities if the product has entered or may enter, sewers, watercourses, or extensive land areas.

Ventilate the contaminated area. Using nonsparking tools, mix the appropriate sorbent into the spilled material. Use an absorbent like sawdust for aqueous, waterborne, and solvent-borne coatings.

Collect the saturated sorbent and transfer it into a covered container. Steel containers are acceptable for all wastes except wastes which contain acid. Use suitable plastic containers for acid-bearing wastes. Wet absorbent with water for alkyd type spills.

**Section 7 - Handling and Storage**

**HANDLING PRECAUTIONS:** Wear all appropriate Personal Protective Equipment (PPE). Wear respiratory protection or ensure adequate ventilation at all times as vapors can accumulate in confined or poorly ventilated areas. Use the product in a manner which minimizes splashes and/or the creation of dust. Keep containers closed when not in use. Do not handle or store material near heat, sparks, open flames, or other sources of ignition. Store at room temperatures, i.e., 40 to 95 F (4 to 35 C).

**STORAGE:** Prevent from freezing. Do not store above 120 F (49 C). Keep in dry areas.

Store only in original containers.

**REGULATORY REQUIREMENTS:** No data found.

**Section 8 - Exposure Controls / Personal Protection**

<table>
<thead>
<tr>
<th>Chemical Name / CAS No.</th>
<th>OSHA Exposure Limits</th>
<th>ACGIH Exposure Limits</th>
<th>Other Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homopolymer of Hexamethylene Disocyanate. 28182-81-2</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
<tr>
<td>n-BUTYL ACETATE 123-86-4</td>
<td>150 ppm TWA; 710 mg/m3 TWA</td>
<td>200 ppm STEL 150 ppm TWA</td>
<td>NIOSH: 150 ppm TWA; 710 mg/m3 TWA 200 ppm STEL; 950 mg/m3 STEL</td>
</tr>
<tr>
<td>Naptha(Pet), light arom. 64742-95-6</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
<tr>
<td>Mixed Xylenes 1330-20-7</td>
<td>100 ppm TWA; 435 mg/m3 TWA</td>
<td>150 ppm STEL 100 ppm TWA</td>
<td>Not Established</td>
</tr>
<tr>
<td>Benzene,1,3,5-trimethyl 108-67-8</td>
<td>Not Established</td>
<td>Not Established</td>
<td>NIOSH: 25 ppm TWA; 125 mg/m3 TWA</td>
</tr>
<tr>
<td>HEXAMETHYLENE DIISOCYANATE 822-06-0</td>
<td>Not Established</td>
<td>0.005 ppm TWA</td>
<td>NIOSH: 0.005 ppm TWA; 0.035 mg/m³ TWA 0.020 ppm Ceiling (10 min); 0.140 mg/m³ Ceiling (10 min)</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>-----------------</td>
<td>----------------</td>
<td>------------------------------------------------------------------</td>
</tr>
<tr>
<td>* 1,2,4-TRIMETHYL BENZENE 95-63-6</td>
<td>Not Established</td>
<td>Not Established</td>
<td>NIOSH: 25 ppm TWA; 125 mg/m³ TWA</td>
</tr>
</tbody>
</table>

**ENGINEERING:** Ensure processing (curing) ovens are properly vented to prevent the introduction of processing fumes into the workplace. Use explosion-proof equipment and good manufacturing practice.

**VENTILATION:** Use only with adequate ventilation, i.e., ventilation in compliance with occupational exposure limits.

**ADMINISTRATIVE CONTROLS:** No data found.

**PROTECTIVE EQUIPMENT:** Wear splash goggles. If extra protection is required, wear a face shield over the splash goggles. Face shields are effective only if worn in addition to splash goggles.

Wear a chemical-resistant, butyl-rubber apron and other protective clothing, as deemed appropriate, to avoid skin contact with material.

Wear chemical-resistant gloves (butyl rubber or neoprene). Protective gloves should be inspected frequently and discarded when they exhibit cuts, tears, pinholes, or signs of excessive wear.

Wear chemical vapor mask or air supplied mask during exposure of vapors.

**CONTAMINATED EQUIPMENT:** Dispose of the waste in compliance with all Federal, state, regional, and local regulations.

### Section 9 - Physical and Chemical Properties

This mixture typically exhibits the following properties under normal circumstances:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Vapor Pressure</strong></td>
<td>6.1 mmHg</td>
</tr>
<tr>
<td><strong>Vapor Density</strong></td>
<td>4.3</td>
</tr>
<tr>
<td><strong>Density</strong></td>
<td>9.84</td>
</tr>
<tr>
<td><strong>Freezing point</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Boiling range</strong></td>
<td>126°C</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Flammability</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Partition coefficient (n-octanol/water)</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Appearance</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Odor threshold</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Melting point</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Solubility</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>117°F, 47°C</td>
</tr>
<tr>
<td><strong>Lb VOC/Gal less water and 0.49 exempt</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Explosive Limits</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Autoignition temperature</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Section 10 - Stability and Reactivity

**Stability:** The product is stable under normal storage conditions

**STABLE**

The product is unstable in the presence of water, and active hydrogen containing compounds such as amines, alcohols, and acids.

This mixture is likely to exhibit the following combustion products: Carbon oxides, hydrogen cyanide, aliphatic compounds, and oxides of sulfur and zinc.
Hazardous polymerization will not occur.

### Section 11 - Toxicological Information

#### Mixture Toxicity

- Oral Toxicity LD50: 84mg/kg
- Inhalation Toxicity LC50: 5mg/L

Routes of Entry: Skin, Eyes, Breathing

Exposure to this material may affect the following organs: Skin, lungs, eyes, internal organs.

<table>
<thead>
<tr>
<th>Route</th>
<th>Effects of Overexposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood</td>
<td>Eyes</td>
</tr>
<tr>
<td>Central Nervous System</td>
<td>Skin</td>
</tr>
</tbody>
</table>

#### Effects of Overexposure

**Carcinogenicity:** The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing).

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Description</th>
<th>% Weight</th>
<th>Carcinogen Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-95-6</td>
<td>Naptha(Pet), light arom.</td>
<td>1 to 5%</td>
<td>Naptha(Pet), light arom.: EU REACH: Present (P)</td>
</tr>
</tbody>
</table>

### Section 12 - Ecological Information

#### Component Ecotoxicity

- **n-BUTYL ACETATE**

  96 Hr LC50 Lepomis macrochirus: 100 mg/L [static]; 96 Hr LC50 Pimephales promelas: 17 - 19 mg/L [flow-through]

  72 Hr EC50 Desmodesmus subspicatus: 674.7 mg/L

- **Naptha(Pet), light arom.**

  96 Hr LC50 Oncorhynchus mykiss: 9.22 mg/L

  48 Hr EC50 Daphnia magna: 6.14 mg/L

- **Mixed Xylenes**

  96 Hr LC50 Pimephales promelas: 13.4 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 2.661 - 4.093 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 13.5 - 17.3 mg/L; 96 Hr LC50 Lepomis macrochirus: 13.1 - 16.5 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 19 mg/L; 96 Hr LC50 Lepomis macrochirus: 7.711 - 9.591 mg/L [static]; 96 Hr LC50 Pimephales promelas: 23.53 - 29.97 mg/L [static]; 96 Hr LC50 Cyprinus carpio: 780 mg/L [semi-static]; 96 Hr LC50 Cyprinus carpio: >780 mg/L; 96 Hr LC50 Poecilia reticulata: 30.26 - 40.75 mg/L [static]

  48 Hr EC50 water flea: 3.82 mg/L; 48 Hr LC50 Gammarus lacustris: 0.6 mg/L

- **Benzene, 1,3,5-trimethyl**

  96 Hr LC50 Pimephales promelas: 3.48 mg/L

- **HEXAMETHYLENE DIISOCYANATE**

  96 Hr LC50 Brachydaniio rerio: 26.1 mg/L [static]

- *** 1,2,4-TRIMETHYL BENZENE**

  96 Hr LC50 Pimephales promelas: 7.19 - 8.28 mg/L [flow-through]

  48 Hr EC50 Daphnia magna: 6.14 mg/L

### Section 13 - Disposal Considerations

As the US EPA, state, regional, and other regulatory agencies may have jurisdiction over the disposal of your facility's hazardous waste, it is incumbent upon you, the hazardous waste generator, to learn of and satisfy all the requirements which affect you. Dispose of the hazardous waste at a properly licensed and permitted disposal site or facility. Ensure conformity to all applicable hazardous waste disposal regulations.

The US EPA Hazardous Waste Numbers which follow are applicable to this unadulterated product if the product enters the "waste stream." Refer to Title 40 of the Code of Federal Regulations, Part 261 (40 CFR 261). This part of the Code identifies solid wastes which are subject to regulation under various sections of the Code and which are subject to the notification requirements of Section 3010 of the Resource Conservation and Recovery Act (RCRA).
HAZARDOUS AIR POLLUTANTS

822-06-0  HEXAMETHYLENE DIISOCYANATE
1330-20-7  Mixed Xylenes

MASSACHUSETTS RIGHT TO KNOW

1330-20-7  Mixed Xylenes  0.1 to 1.0 %
822-06-0  HEXAMETHYLENE DIISOCYANATE  0.1 to 1.0 %
108-67-8  Benzene,1,3,5-trimethyl  0.1 to 1.0 %
95-63-6  * 1,2,4-TRIMETHYL BENZENE  0.1 to 1.0 %
123-86-4  n-BUTYL ACETATE  1 to 5 %

NEW JERSEY RIGHT TO KNOW

822-06-0  HEXAMETHYLENE DIISOCYANATE  0.1 to 1.0 %
1330-20-7  Mixed Xylenes  0.1 to 1.0 %
95-63-6  * 1,2,4-TRIMETHYL BENZENE  0.1 to 1.0 %
123-86-4  n-BUTYL ACETATE  1 to 5 %

PENNSYLVANIA RIGHT TO KNOW

95-63-6  * 1,2,4-TRIMETHYL BENZENE  0.1 to 1.0 %
1330-20-7  Mixed Xylenes  0.1 to 1.0 %
123-86-4  n-BUTYL ACETATE  1 to 5 %

CHEMICAL LIST FOR SARA 311

1330-20-7  Mixed Xylenes

1330-20-7  Mixed Xylenes
28182-81-2  Homopolymer of Hexamethylene Diisocyanate.

CHEMICAL LIST FOR SARA 313

95-63-6  * 1,2,4-TRIMETHYL BENZENE
1330-20-7  Mixed Xylenes

Country   Regulation   All Components Listed

EU Risk Phrases

Safety Phrase

- None
Hazardous Material Information System (HMIS)

Legend
* = Chronic Health Hazard
0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH

Date Prepared: 7/28/2016