SECTION 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER
Product Name: 1K MOISTURE CURE URETHANE - SHALE
Product Code: U9116, U9116-1, U9116-5

1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE
Product Use: Architectural Coating and Waterproofing
Use this product in accordance with all local, regional, national and international regulations.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET
Name/Address: Gaco Western LLC
1245 Chapman Dr.
Waukesha, WI, 53186-5942
USA
Telephone Number: 800-331-0196 / International: 001-800-331-0196
Email: sds@gaco.com
Website: www.gaco.com

1.4 EMERGENCY TELEPHONE NUMBER
For Chemical Emergency
Spill, Leak, Fire, Exposure, or Incident
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1-703-527-3887 (collect calls accepted)

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 CLASSIFICATION OF THE CHEMICAL

Hazard class:

<table>
<thead>
<tr>
<th>HAZARD CLASSIFICATION</th>
<th>CATEGORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>2</td>
</tr>
<tr>
<td>Eye Damage/Irritation</td>
<td>2A</td>
</tr>
<tr>
<td>Sensitization – Skin</td>
<td>1</td>
</tr>
<tr>
<td>Sensitization – Respiratory</td>
<td>1</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>2</td>
</tr>
<tr>
<td>Toxic to Reproduction</td>
<td>1A</td>
</tr>
<tr>
<td>STOT SE – Specific Target Organ Toxicity (Single Exposure)</td>
<td>3</td>
</tr>
<tr>
<td>STOT RE – Specific Target Organ Toxicity (Repeated Exposure)</td>
<td>2</td>
</tr>
<tr>
<td>Flammable Liquids</td>
<td>3</td>
</tr>
</tbody>
</table>

2.2 LABEL ELEMENTS

Hazard pictogram: GHS02, GHS07, GHS08
Signal word: Danger

Hazard statement:
Flammable liquid and vapor
Causes skin irritation
May cause an allergic skin reaction
Causes serious eye irritation
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause respiratory irritation
Suspected of causing cancer
May damage the unborn child. Suspected of damaging fertility.
May cause damage to organs <lungs> through prolonged or repeated exposure <inhalation>

Prevention:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, hot surfaces/sparks/open flames/hot surfaces. -No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
In case of inadequate ventilation, wear respiratory protection.

Response:
In case of fire: Use water fog, foam, dry chemical powder, carbon dioxide (CO2) to extinguish.
Specific treatment (see Section 8 on this label).
If on skin (or hair): Remove/Take off immediately all contaminated clothing.
Rinse skin with water/shower.
Wash contaminated clothing before reuse.
If skin irritation or a rash occurs: Get medical advice/attention.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If experiencing respiratory symptoms: Call a poison/doctor.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Storage:
Store in a well-ventilated place. Keep cool. Store locked up.

Disposal:
Dispose of contents and container in accordance with all local, regional, national and international regulations.

2.3 ADDITIONAL INFORMATION
Main symptoms:
Prolonged exposure may cause chronic effects. Suspected of causing cancer.
May damage the unborn child. Suspected of damaging fertility. May cause damage to organs (lungs) through prolonged or repeated (inhalation) exposure. Skin irritation. May cause redness and pain. May cause allergic skin reaction. Dermatitis. Rash. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Difficulty breathing. May cause respiratory irritation. May cause allergy or asthma.
symptoms or breathing difficulties if inhaled.

Animal tests and other research indicate that skin contact with TDI can play a role in causing isocyanate sensitization and respiratory reaction. Lung damage and respiratory sensitization may be permanent.

**Hazards not otherwise specified:** Harmful to aquatic life with long lasting effects

42% of the mixture consists of ingredient(s) of unknown acute toxicity

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 MIXTURES

<table>
<thead>
<tr>
<th>Material</th>
<th>CAS No.</th>
<th>Weight %*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isocyanate Prepolymer</td>
<td>N/A</td>
<td>15-40%</td>
</tr>
<tr>
<td>Titanium dioxide (dust)</td>
<td>13463-67-7</td>
<td>5-10%</td>
</tr>
<tr>
<td>Limestone</td>
<td>1317-65-3</td>
<td>5-10%</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), light arom.</td>
<td>64742-95-6</td>
<td>1-5%</td>
</tr>
<tr>
<td>Xylene (mixed isomers)</td>
<td>1330-20-7</td>
<td>1-5%</td>
</tr>
<tr>
<td>Propylene glycol monomethyl ether acetate</td>
<td>108-65-6</td>
<td>1-5%</td>
</tr>
<tr>
<td>Antimony trioxide</td>
<td>1309-64-4</td>
<td>1-5%</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>1-5%</td>
</tr>
<tr>
<td>Silicon dioxide</td>
<td>7631-86-9</td>
<td>1-5%</td>
</tr>
<tr>
<td>Toluene-diisocyanate, mixture of toluene-2,4-di-isocyanate and toluene-2,6-di-isocyanate (TDI)</td>
<td>26471-62-5</td>
<td>0.1-1.0%</td>
</tr>
<tr>
<td>n-(Trichloromethylthio) phthalimide (Folpet)</td>
<td>133-07-3</td>
<td>0.1-1.0%</td>
</tr>
<tr>
<td>Silica, quartz (dust)</td>
<td>14808-60-7</td>
<td>0.1-1.0%</td>
</tr>
<tr>
<td>p-Toluenesulfonyl isocyanate</td>
<td>4083-64-1</td>
<td>0.1-1.0%</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

### SECTION 4: FIRST-AID MEASURES

#### 4.1 DESCRIPTION OF THE FIRST AID MEASURES

**General information:** If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison center immediately.

**Skin contact:** Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs, get medical advice/attention. In case of eczema or other skin disorders: Seek medical attention and bring along these instructions.

**Eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Ingestion:** Rinse mouth. Get medical attention if symptoms occur.

#### 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED
Prolonged exposure may cause chronic effects.

- Suspected of causing cancer.
- May damage the unborn child. Suspected of damaging fertility.
- May cause damage to organs (lungs) through prolonged or repeated (inhalation) exposure.
- Skin irritation. May cause redness and pain.
- May cause allergic skin reaction. Dermatitis. Rash.

Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

- Difficulty breathing.
- May cause respiratory irritation.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin contact with TDI can cause discoloration. Animal tests and other research indicate that skin contact with TDI can play a role in causing isocyanate sensitization and respiratory reaction. This data reinforces the need to prevent direct skin contact with isocyanates.

Diisocyanate vapors or mist at concentrations above the TLV or PEL can irritate (burning sensation) the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath, and reduced lung function (breathing obstruction). Persons with a preexisting, nonspecific bronchial hyperreactivity can respond to concentrations below the TLV or PEL with similar symptoms as well as asthma attack or asthma-like symptoms. Exposure well above the TLV or PEL may lead to bronchitis, bronchial spasm and pulmonary edema (fluid in lungs). Chemical or hypersensitivity pneumonitis, with flu-like symptoms (e.g. fever, chills) has also been reported. These symptoms can be delayed up to several hours after exposure. These effects are usually reversible.

### 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENTS NEEDED

**Note to physicians:**

Treat symptomatically. Symptoms may be delayed. Thermal burns: Flush with water immediately. While flushing, remove clothes that do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

**Eyes:** Stain for evidence of corneal injury. If cornea is burned, instill antibiotic/steroid preparation as needed. Workplace vapors could produce reversible corneal epithelial edema impairing vision.

**Skin:** This compound is a skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burn.

**Ingestion:** Treat symptomatically. There is no specific antidote. Inducing vomiting is contraindicated because of the irritating nature of the compound.

**Inhalation:** Treatment is essentially symptomatic. An individual having a dermal or pulmonary sensitization reaction to this material should be removed from further exposure to any diisocyanate.

**Specific treatments:**

In case of accident or if you feel unwell, seek medical advice (show the label or SDS where possible).

### SECTION 5: FIRE-FIGHTING MEASURES

**5.1 EXTINGUISHING MEDIA**

**General hazards:** Flammable liquid and vapor.

**Suitable extinguishing media:** Foam, CO2 or dry powder. Water spray may be used if no other
available and then in copious quantities. Reaction between water and hot isocyanate may be vigorous. Prevent washings from entering water courses, keep fire exposed containers cool by spraying with water.

Unsuitable extinguishing media: Do not use water jet as an extinguisher as this will spread the fire.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE
Specific hazards: Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Products of combustion: May include, and are not limited to: carbon oxides (CO, CO2) nitrogen oxides (NO, NO2 etc.) hydrocarbons, isocyanate vapors, and hydrogen cyanide.

5.3 Special protective equipment and precautions for fire-fighters (PPE)
Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire-fighting procedures: In case of fire and/or explosion, do not breathe fumes. Keep upwind of fire. Move containers from fire area if you can do it without risk.

During a fire, isocyanate vapors and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. Exposure to heated diisocyanate can be extremely dangerous.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES
Immediately contact emergency personnel. Evacuate the area. Keep upwind to avoid inhalation of vapors. Clean-up should only be performed by trained personnel. People dealing with major spillages should wear full protective clothing including respiratory protection. Use suitable protective equipment (section 8). Keep unauthorized persons away.

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.

6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING - UP

Methods for containment: Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning-up: Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. For waste disposal, see Section 13 of the SDS.

If the product is in its solid form: Spilled TDI flakes should be picked up carefully. The area should be vacuum cleaned to remove remaining dust particles completely.

If the product is in its liquid form: Absorb spillages onto sand, earth or
any suitable adsorbent material. Leave to react for at least 30 minutes. Do NOT absorb onto sawdust or other combustible materials. Shovel into open-top drums for further decontamination. Wash the spillage area with water. Test atmosphere for TDI vapor. Neutralize small spillages with decontaminant. Remove and dispose of residues. The compositions of liquid decontaminants are: (percentages by weight or volume):

- Decontaminant 1: sodium carbonate: 5 - 10 %
- liquid detergent: 0.2 - 2 %
- water: to make up to 100 %
- Decontaminant 2: concentrated ammonia solution: 3 - 8 %
- liquid detergent: 0.2 - 2 %
- water: to make up to 100 %
- Decontaminant 1 reacts slower with diisocyanates but is more environmentally friendly than decontaminant 2.
- Decontaminant 2 contains ammonia. Ammonia presents health hazards. (See supplier safety information.)

**Large spills:**
Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Prevent product from entering drains.

**Small spills:**
Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

**Environmental precautions:**
Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases.

**SECTION 7: HANDLING AND STORAGE**

**7.1 PRECAUTIONS FOR SAFE HANDLING**

**Precautions for Safe handling:**
Vapors may form explosive mixtures with air. Do not handle or store near an open flame, heat or other sources of ignition. Do not smoke. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment.

Do not breathe vapors, mists, or dusts. Use adequate ventilation to keep airborne isocyanate levels below the exposure limits. Wear respiratory protection if material is heated, sprayed, used in confined space, or if the exposure limit is exceeded. Warning properties (irritation of the eyes, nose and throat or odor) are NOT adequate to prevent overexposure from inhalation. This material can produce asthmatic sensitization upon either single inhalation exposure to a relatively high concentration or upon repeated inhalation exposures to lower concentrations. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must be exposed to vapor or spray mist. Avoid contact with skin and eyes. Wear appropriate eye and skin protection. Wash thoroughly after handling. Do NOT breathe smoke and gases created by over heating or burning this material. Decomposition products can be highly toxic and irritating. Store in tightly closed containers to prevent moisture contamination. Do NOT reseal if contamination is suspected.

**General hygiene advice:**
Ensure that medical personnel are aware of the materials(s) involved, and take precautions to protect themselves.
7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Safe storage: Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Keep container tightly closed. Store in a cool and well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

Minimum: 50°F (10°C)
Maximum: 86°F (30°C)

Specific use: Architectural Coating and Waterproofing

Technical measures: Vapors may form explosive mixtures with air. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment.

Incompatible materials: Copper, copper alloy, galvanized surfaces, water, amines, strong bases, alcohols. Moisture sensitive.

Safe packaging material: Store away from incompatible materials. Store in tightly closed containers to prevent moisture contamination. Do NOT reseal if contamination is suspected.

Precautions:
Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Take precautionary measures against static discharges.

Safe handling advice:
Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Take precautionary measures against static discharges. Use personal protection recommended in Section 8 of the SDS.

Suitable storage conditions:
Keep away from heat, sparks and open flame. Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials. Store in tightly closed containers to prevent moisture contamination. Do NOT reseal if contamination is suspected.

Handling-technical measures:
Use non-sparking tools and explosion-proof equipment. All equipment used when handling this product must be grounded.

Local and general ventilation:
Provide adequate ventilation.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Control parameters: Follow standard monitoring procedures.

Exposure limits:

Titanium dioxide (dust)
OSHA: PEL†: TWA 15 mg/m³
NIOSH: REL: Ca See Appendix A
No significant exposure to primary particles of titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as in paints.

Limestone
OSHA: PEL: TWA 15 mg/m³ (total)
TWA 5 mg/m³ (resp)
NIOSH: REL: TWA 10 mg/m³ (total)
TWA 5 mg/m³ (resp)
ACGIH TLV: 2 mg/m³ (resp)

**Xylene (mixed isomers)**
- **OSHA:**
  - PEL-TWA ppm: 100
  - PEL-TWA mg/m³: 435
- **NIOSH:**
  - REL-TWA ppm: 100
  - REL-TWA mg/m³: 435
  - REL-STEL ppm: 150
  - REL-STEL mg/m³: 655
  - IDLH ppm: 900

**Antimony trioxide**
- **OSHA:**
  - PEL-TWA mg/m³: 0.5
- **NIOSH:**
  - REL-TWA mg/m³: 0.5
  - IDLH mg/m³: 50

**Silicon dioxide**
- **OSHA:**
  - PEL†: TWA 20 mppcf (80 mg/m³/%SiO₂) See Appendix C (Mineral Dusts)
- **NIOSH:**
  - REL: TWA 6 mg/m³

No significant exposure to primary particles of silicon dioxide is thought to occur during the use of products in which silicon dioxide is bound to other materials, such as in paints.

### 8.2 EXPOSURE CONTROLS

**Engineering measures to reduce exposure:**

Explosion-proof general and local exhaust ventilation. Eye wash facilities and emergency shower must be available when handling this product.

Provide sufficient air exchange and/or exhaust in work rooms. In all workplaces or parts of the plant where high concentrations of isocyanate aerosols and/or vapors may be generated (e.g. during pressure release, mold venting or when cleaning mixing heads with an air blast), appropriately located exhaust ventilation must be provided in order to prevent occupational exposure limits from being exceeded. The air should be drawn away from the personnel handling the product. The efficiency of the ventilation system must be monitored regularly because of the possibility of blockage. Atmospheric concentrations should be minimized and kept as low as reasonably practicable below the occupational exposure limit.

### 8.3 INDIVIDUAL PROTECTIVE MEASURES

**General:**

Eye wash fountain and emergency showers are recommended. Use personal protective equipment as required.

Animal tests and other research indicate that skin contact with TDI can play a role in causing isocyanate sensitization and respiratory reaction. Lung damage and respiratory sensitization may be permanent.

All applicants who are assigned to an isocyanate work area should undergo a
pre-placement medical evaluation. A history or eczema or respiratory allergies such as hay fever, are possible reasons for medical exclusion from isocyanate areas. Applicants who have a history of adult asthma should be restricted from work with isocyanates. A comprehensive annual medical surveillance program should be instituted for all employees who are potentially exposed to diisocyanates. Once a worker has been diagnosed as sensitized to any isocyanate, no further exposure can be permitted.

**Eye protection:**
Wear safety glasses with side shields (or goggles).

**Hand protection:**
Wear appropriate chemical resistant gloves. Nitrile rubber showed excellent resistance. Butyl rubber, neoprene and PVC are also effective.

**Respiratory protection:**
In case of insufficient ventilation, wear suitable respiratory equipment. Airborne TDI concentrations greater than the ACGIH TLV-TWA (TLV) or OSHA PEL-C- (PEL) can occur in inadequately ventilated environments when TDI is sprayed, aerosolized, or heated. In such cases, respiratory protection must be worn. The type of respiratory protection selected must comply with the requirements set forth in OSHA’s Respiratory Protection Standard (29 CFR 1910.134). The type of respiratory protection available includes (1) an atmosphere-supplying respiratory such as a self-contained breathing apparatus (SCBA) or a supplied air respirator (SAR) in the positive pressure or continuous flow mode, or (2) an air purifying respirator (APR). If an APR is selected then (a) the cartridge must be equipped with an end-of-service life indicator (ESLI) certified by NIOSH, or (b) a change out schedule, based on objective information or data that will ensure that the cartridges are changed out before the end of their service life, must be developed and implemented. The basis for the change out schedule must be described in the written respirator program. Further, if an APR is selected, the airborne diisocyanate concentration must be no greater than 10 times the TLV or PEL. The recommended APR cartridge is an organic vapor/particulate filter combination cartridge (OV/P100).

**Skin and body protection:**
Wear suitable protective clothing. Animal tests and other research indicate that skin contact with TDI can play a role in causing isocyanate sensitization and respiratory reaction. This data reinforces the need to prevent direct skin contact with isocyanates.

**Hygiene measures:**
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Control parameters:**
Follow standard monitoring procedures. Local exhaust should be used to maintain levels below the TLV whenever TDI is heated, sprayed, or aerosolized. Standard reference sources regarding industrial ventilation (e.g. ACGIH Industrial Ventilation Manual) should be consulted for guidance about adequate ventilation. To ensure that published exposure limits have not been exceeded, monitoring for airborne diisocyanate should become part of the overall employee exposure characterization program. NIOSH, OSHA, and others have developed sampling and analytical methods. These are available through various suppliers. Gaco Western does not supply these sampling methods directly.

**Thermal hazards:**
Wear appropriate thermal protective clothing, when necessary.

**Environmental exposure controls:**
Inform appropriate managerial or supervisory personnel of all environmental releases.
9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Viscous shale liquid</td>
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<tr>
<td>Color</td>
<td>Shale</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Strong solvent</td>
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<tr>
<td>Odor Threshold</td>
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<tr>
<td>Physical State</td>
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<td>pH (at 20°C)</td>
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<tr>
<td>Melting Point/Freezing Point</td>
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<td>Initial Boiling Point and Boiling Range</td>
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<td>Flash Point</td>
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<tr>
<td>Evaporation Rate</td>
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<td>Flammability (solid, gaseous)</td>
<td>Flammable liquid and vapor</td>
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<td>Lower Flammability/Explosive Limit</td>
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<td>Upper Flammability/Explosive Limit</td>
<td>Not applicable</td>
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<td>Vapor Pressure (mm Hg @38°C)</td>
<td>Not applicable</td>
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<tr>
<td>Vapor Density</td>
<td>Not applicable</td>
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<tr>
<td>Density (lb/gal)</td>
<td>10.46</td>
</tr>
<tr>
<td>Relative Density/Specific Gravity</td>
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<tr>
<td>Solubility in water/miscibility</td>
<td>Insoluble - reacts slowly with water to liberate CO₂ gas</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
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<tr>
<td>Decomposition Temperature</td>
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<td>Viscosity (at 25°C) g/L</td>
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<tr>
<td>Oxidizing Properties</td>
<td>Not applicable</td>
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<tr>
<td>Explosive Properties</td>
<td>Not applicable</td>
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<tr>
<td>VOC</td>
<td>&lt;160 g/L (&lt;1.3352 lb/gal)</td>
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<td>Solvent content - Organic</td>
<td>Not applicable</td>
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<tr>
<td>Solvent content - Water</td>
<td>Not applicable</td>
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<tr>
<td>Solvent content - Solids</td>
<td>87.77%</td>
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<tr>
<td>Other information</td>
<td>Not applicable</td>
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<tr>
<td>Incompatibilities</td>
<td>Copper, copper alloy, galvanized surfaces, water, amines, strong bases, alcohols. Moisture sensitive.</td>
</tr>
</tbody>
</table>

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2 CHEMICAL STABILITY

Chemical stability: Material is stable under normal conditions.

Materials to avoid: Copper, copper alloy, galvanized surfaces, water, amines, strong bases, alcohols. Moisture sensitive.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Hazardous reactions: Moisture sensitive. Contact with moisture, other materials that react with isocyanates, or temperatures above 350°F (177°C), may cause polymerizations.

10.4 CONDITIONS TO AVOID

Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials. Temperatures above 350°F (177°C).

10.5 INCOMPATIBLE MATERIALS

Copper, copper alloy, galvanized surfaces, water, amines, strong bases,
10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous decomposition products: By fire and high heat: Carbon dioxide (CO2), Carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke, isocyanate, isocyanic acid, other undetermined compounds.

Hazardous polymerization: Moisture sensitive. Contact with moisture, other materials that react with isocyanates, or temperatures above 350°F (177°C), may cause polymerizations.

Other information: Not applicable.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity: Skin irritation. May cause redness and pain. May cause allergic skin reaction. Dermatitis. Rash. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Difficulty breathing. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Likely routes of exposure: Skin contact. Eye contact. Inhalation.

Eye: Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Skin: Skin irritation. May cause redness and pain. May cause allergic skin reaction. Dermatitis. Rash.

Inhalation: Difficulty breathing. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Diisocyanate vapors or mist at concentrations above the TLV or PEL can irritate (burning sensation) the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath, and reduced lung function (breathing obstruction). Persons with a preexisting, nonspecific bronchial hyperreactivity can respond to concentrations below the TLV or PEL with similar symptoms as well as asthma attack or asthma-like symptoms. Exposure well above the TLV or PEL may lead to bronchitis, bronchial spasm and pulmonary edema (fluid in lungs). Chemical or hypersensitivity pneumonitis, with flu-like symptoms (e.g. fever, chills), has also been reported. These symptoms can be delayed up to several hours after exposure. These effects are usually reversible.

LD50/LC50 values relevant to this classification:

Titanium dioxide (dust)
Oral mouse LD50 > 5000 mg/kg bw
Oral rat LD50 > 5000 mg/kg bw
Oral rat LD50 > 2000 mg/kg bw
Oral rat LD50 > 11000 mg/kg bw
Inhal rat LC50 3.43-5.09 mg/L air
Inhal rat LC50 > 3.56 mg/L air
Inhal rat LC50 > 2.28 mg/L air

Solvent naphtha (petroleum), light arom.
Oral LD50 > 5000 mg/kg bw
Inhal LC50 > 2000 mg/L bw
Derm LD50 > 5000 mg/kg bw

Xylene (mixed isomers)
Oral rat LD50 3523-4000 mg/kg bw
Oral rat LD50 5251-5627 mg/kg bw
Oral rat LD50 4300 mg/kg bw
Oral rat LD50 8400 mg/kg
derm rabbit LD50 >5000 ml/kg bw (4200 mg/kg)
Inhal rat LC50 6700 ppm (29000 mg/m3)
Inhal rat LC50 6247 ppm (27124 mg/m3)

Propylene glycol monomethyl ether acetate
Oral rat LD50 >10000 mg/kg bw
Oral rat LD50 6289-10000 mg/kg bw
Oral rat LD50 >5000 mg/kg bw
Inhal rat LC0 > 4345 ppm air 6hr
Inhal mouse LC0 > 2000 ppm air 3hr
Inhal rat LC0 > 1883 ppm air 4hr
Inhal rat LC0 > 2000 air 3hr
derm rabbit LD50 >2000 mg/kg bw
derm rabbit LD50 >5000 mg/kg bw

Antimony trioxide
Oral rat LD50 > 7500 mg/kg bw (3)
Inhal rat LC50 > 5.2 mg/L air 4hr
derm rabbit LD50 > 8300 mg/kg bw

Ethylbenzene
Oral rat LD50 3500 mg/kg bw/day
Oral rat LD50 5460 mg/kg bw/day
Inhal mouse LC50 6.2 mg/L air
Inhal rat LC0 > 400 ppm air no deaths
Inhal gp LC50 >3000 ppm air
Inhal mice LC50 > 8000 ppm
Inhal mouse LC50 35.5 mg/L air
Inhal rat LC50 4000 ppm

Silicon dioxide
Oral rat LD50 3500 mg/kg bw/day
Oral rat LD50 5460 mg/kg bw/day
Inhal mouse LC50 6.2 mg/L air
Inhal rat LC0 > 400 ppm air no deaths
Inhal gp LC50 >3000 ppm air
Inhal mice LC50 > 8000 ppm
Inhal mouse LC50 35.5 mg/L air
Inhal rat LC50 4000 ppm
11.2 DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT- AND LONG-TERM EXPOSURE

Skin corrosion/irritation: Skin irritation. May cause redness and pain. May cause allergic skin reaction. Dermatitis. Rash. Contact with TDI can cause discoloration. Animal tests and other research indicate that skin contact with TDI can play a role in causing isocyanate sensitization and respiratory reaction. This data reinforces the need to prevent direct skin contact with isocyanates.

Serious eye damage/irritation: Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Respiratory sensitization: May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitization: May cause allergic skin reaction. Dermatitis. Rash.

Symptoms and target organs: Prolonged exposure may cause chronic effects. Suspected of causing cancer. May damage the unborn child. Suspected of damaging fertility. May cause damage to organs (lungs) through prolonged or repeated (inhalation) exposure. Skin irritation. May cause redness and pain. May cause allergic skin reaction. Dermatitis. Rash. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Difficulty breathing. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Chronic health effects: Prolonged exposure may cause chronic effects. Suspected of causing cancer. May damage the unborn child. Suspected of damaging fertility. May cause damage to organs (lungs) through prolonged or repeated (inhalation) exposure.

Carcinogenicity: Suspected of causing cancer.

<table>
<thead>
<tr>
<th>Material</th>
<th>OSHA(O)</th>
<th>ACGIH(G)</th>
<th>NTP(N)</th>
<th>IARC(I)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide (dust)</td>
<td>Not listed</td>
<td>A4</td>
<td>Not listed</td>
<td>2B</td>
</tr>
<tr>
<td>Antimony trioxide</td>
<td>Not listed</td>
<td>A2</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>Not listed</td>
<td>A3</td>
<td>Not listed</td>
<td>2B</td>
</tr>
<tr>
<td>Toluene-diisocyanate, mixture of toluene-2,4-diisocyanate and toluene-2,6-di-isocyanate</td>
<td>CA</td>
<td>A4</td>
<td>R</td>
<td>2B (gas)</td>
</tr>
<tr>
<td>Silica, quartz (dust)</td>
<td>Not listed</td>
<td>A2</td>
<td>K</td>
<td>1</td>
</tr>
</tbody>
</table>

Mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Reproductive Toxicity: May damage the unborn child. Suspected of damaging fertility.

Specific Target Organ Toxicity (STOT):

Single Exposure: May cause respiratory irritation.

Repeated Exposure: May cause damage to organs (lungs) through prolonged or repeated (inhalation) exposure.

Aspiration Toxicity: Based on available data, this product is not expected to cause aspiration toxicity.
Other Information: Not applicable.

SECTION 12: ECOLOGICAL INFORMATION

12.1 ECOTOXICITY
Ecotoxicity: Harmful to aquatic life with long lasting effects
Acute aquatic toxicity: The product is not classified as acutely environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Chronic toxicity: Harmful to aquatic life with long lasting effects
Environmental effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

12.2 PERSISTENCE AND DEGRADABILITY
Persistence/biodegradability: The product contains substances which are not expected to be readily biodegradable.

12.3 BIOACCUMULATIVE POTENTIAL
Bioaccumulation: No data available.

12.4 MOBILITY
Mobility: No data available.
Mobility in soil: No data available.
Mobility in non-soil: No data available.

12.5 OTHER ADVERSE EFFECTS
Ozone layer: No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS
Disposal method: This material must be disposed of in accordance with all local, state, provincial, and federal regulations.
Contaminated packaging: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Dispose of contents and container in accordance with all local, regional, national and international regulations.
EU codes: The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Residual waste: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Disposal instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents and container in accordance with all local, regional, national and international regulations.
Waste codes: D001: Waste Flammable material with a flash point <140°F (<60°C) The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Other disposal recommendations: None

SECTION 14: TRANSPORT INFORMATION

DOT Non-Bulk
Not hazardous for transport under exception 173.150 (f) (2,3)

DOT Bulk
SAFETY DATA SHEET

UN: UN1263
Proper shipping name: Paint
Hazard class: 3
Packing group: PG III

IMDG
UN: UN1263
Proper shipping name: Paint
Hazard class: 3
Packing group: PG III

ICAO/IATA
UN: UN1263
Proper shipping name: Paint
Hazard class: 3
Packing group: PG III

Reportable quantity: Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

SECTION 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/ LEGISLATIONS SPECIFIC FOR THE CHEMICAL

US Federal Regulations:

U.S. OSHA (Occupational Safety and Health Administration) Specifically Regulated Substances (29 CFR 1910.1001-1050)

The following components of this product are found at concentrations greater than or equal to 0.1% and are listed as U.S. OSHA Specifically Regulated Substances.

<table>
<thead>
<tr>
<th>Material</th>
<th>CAS No.</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene-diisocyanate, mixture of toluene-2,4-di-isocyanate and toluene-2,6-di-isocyanate</td>
<td>26471-62-5</td>
<td>1-5%</td>
</tr>
</tbody>
</table>

SARA/CERCLA reporting requirements:

The following components of this product are found at concentrations greater than or equal to 0.1% and are subject to SARA/CERCLA reporting requirements.

<table>
<thead>
<tr>
<th>Material</th>
<th>SARA 302 (EHSs) TQ</th>
<th>SARA 304 EHSs RQ</th>
<th>CERCLA RQ</th>
<th>SARA 313 listed</th>
<th>RCRA CODE</th>
<th>CAA 112(r) TQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylene (mixed isomers)</td>
<td>Not listed</td>
<td>Not listed</td>
<td>100</td>
<td>313</td>
<td>U239</td>
<td>Not listed</td>
</tr>
<tr>
<td>Antimony trioxide</td>
<td>Not listed</td>
<td>Not listed</td>
<td>1,000</td>
<td>313c</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>Not listed</td>
<td>Not listed</td>
<td>1,000</td>
<td>313</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>Toluene-diisocyanate, mixture of toluene-2,4-di-isocyanate and toluene-2,6-di-isocyanate</td>
<td>Not listed</td>
<td>Not listed</td>
<td>100</td>
<td>X</td>
<td>U223</td>
<td>10,000</td>
</tr>
<tr>
<td>n-(Trichloromethylthio) phthalimide (Folpet)</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>313</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

Right-to-Know Regulations

The following components of this product are found at concentrations greater than or equal to 0.1%, subject to state Right-to-Know reporting requirements; or are found at any concentration and are listed under California Proposition 65.
<table>
<thead>
<tr>
<th>Material</th>
<th>California Proposition 65</th>
<th>Massachus etts Right-to-Know</th>
<th>Minnesota Employee Right-to-Know</th>
<th>New Jersey Community Environmental Hazard Right-to-Know</th>
<th>New Jersey Right-to-Know Substance</th>
<th>Pennsylvania Right-to-Know</th>
<th>Rhode Island Right-to-Know</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paraffin waxes and Hydrocarbon waxes, chloro</td>
<td>Not listed</td>
<td>Listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>Titanium dioxide (dust)</td>
<td>Not listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Not listed</td>
<td>Listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>Limestone</td>
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<td>Listed</td>
<td>Not listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
</tr>
<tr>
<td>Xylene (mixed isomers)</td>
<td>Not listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Not listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
</tr>
<tr>
<td>Antimony trioxide</td>
<td>Cancer</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>Cancer</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
</tr>
<tr>
<td>Silicon dioxide</td>
<td>Not listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Not listed</td>
<td>Listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>Toluene-diisocyanate, mixture of toluene-2,4-diisocyanate and toluene-2,6-diisocyanate</td>
<td>Cancer</td>
<td>Listed</td>
<td>Not listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>n-[(Trichloromethylthio) phthalimide (Folpet)</td>
<td>Cancer</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Listed</td>
<td>Listed</td>
</tr>
<tr>
<td>Silica, quartz (dust)</td>
<td>Not listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Not listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
</tr>
<tr>
<td>Cumene (mixed isomers)</td>
<td>Cancer</td>
<td>Listed</td>
<td>Listed</td>
<td>Not listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
</tr>
<tr>
<td>Toluene</td>
<td>Dev</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
</tr>
<tr>
<td>Benzene</td>
<td>Cancer</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>Cancer</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
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</tr>
</tbody>
</table>

Global Inventories:

<table>
<thead>
<tr>
<th>Notification status</th>
<th>US - TSCA</th>
<th>All substances are listed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Canada -DSL</td>
<td>All substances are listed</td>
</tr>
<tr>
<td></td>
<td>Canada - NDSL</td>
<td>No substances are listed</td>
</tr>
<tr>
<td></td>
<td>EU - EINECS</td>
<td>All substances are listed</td>
</tr>
<tr>
<td></td>
<td>EU - ELINCS</td>
<td>No substances are listed</td>
</tr>
<tr>
<td></td>
<td>EU - NLP</td>
<td>No substances are listed</td>
</tr>
<tr>
<td></td>
<td>Australia – AICS</td>
<td>All substances are listed</td>
</tr>
<tr>
<td></td>
<td>China - EICSC</td>
<td>All substances are listed</td>
</tr>
<tr>
<td></td>
<td>Japan - ENCS</td>
<td>All substances are listed</td>
</tr>
<tr>
<td></td>
<td>Korea - KECI</td>
<td>All substances are listed</td>
</tr>
<tr>
<td></td>
<td>Taiwan - NECI</td>
<td>All substances are listed</td>
</tr>
<tr>
<td></td>
<td>New Zealand - NZIoC</td>
<td>Not all substances are listed</td>
</tr>
<tr>
<td></td>
<td>Philippine - PICCS</td>
<td>All substances are listed</td>
</tr>
</tbody>
</table>

EU - REACH Status:

A registration number is not available for substances in this mixture as the substances are exempted from registration, the annual tonnage does not require a registration or the registration is envisioned for a later registration deadline.

CANADA – WHMIS (Workplace Hazardous Materials Information System) Classification:

B3, D1A, D2A, D2B

MEXICO:

Hazard Classification: 2-2-1
Carcinogen Status: Suspected of causing cancer.

SECTION 16: OTHER INFORMATION
HMIS (Hazardous Materials Identification System) rating:

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>2*</td>
</tr>
<tr>
<td>Flammability</td>
<td>2</td>
</tr>
<tr>
<td>Physical</td>
<td>1</td>
</tr>
</tbody>
</table>

NFPA 704 (National Fire Protection Association) rating:

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>2</td>
</tr>
<tr>
<td>Fire</td>
<td>2</td>
</tr>
<tr>
<td>Reactivity</td>
<td>1</td>
</tr>
</tbody>
</table>

Legend:

- DOT: US Department of Transportation
- IATA: International Air Transport Association
- ICAO: International Civil Aviation Organization
- IMDG: International Maritime Dangerous Goods
- ACGIH: American Conference of Governmental Industrial Hygienists
- NTP: National Toxicology Program
- IARC: International Agency for Research on Cancer
- PPE: Personal Protective Equipment
- RCRA: Resource Conservation and Recovery Act
- CAA: Clean Air Act
- SARA: Superfund Amendments and Reauthorization Act
- EPCRA: Emergency Planning and Community Right-to-Know Act
- WHMIS: Workplace Hazardous Materials Information System
- EU: European Union
- REACH: Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals
- CERCLA: Comprehensive Environmental Response, Compensation and Liability Act
- TSCA: US Toxic Substances Control Act (TSCA)
- DSL: Canada Domestic Substance List (DSL)
- NDSL: Canada Non-Domestic Substance List (NDSL)
- EINECS: European Inventory of Existing Commercial Chemical Substances (EINECS)
- ELINCS: European List of Notified Chemical Substances (ELINCS)
- NLP: European list of No-longer Polymers (NLP)
- AICS: Australian Inventory of Chemical Substances (AICS)
- ENCS: Japanese Existing and New Chemical Substances Inventory (ENCS)
- KECI: Korea Existing Chemicals Inventory (KECI)
- NECI: Taiwan National Existing Chemical Inventory (NECI)
- NZIoC: New Zealand Inventory of Chemicals (NZIoC)
- PICCS: Philippine Inventory of Chemicals and Chemical Substances (PICCS)
- HMIS: Hazardous Materials Identification System
- NFPA: National Fire Protection Association (NFPA)

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Version: 1.0
Revision Date: July 19, 2016
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Prepared by: Gaco Western LLC