SECTION 1 - MANUFACTURER'S IDENTIFICATION

Product Name: INDURETHANE 6600 PLUS WTB  Product Code: A8-1604W
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)
- Dermal Toxicity: Acute Tox. 3  
  Dermal>200+<=1000mg/kg
- Skin corrosive: 3  
  Reversible adverse effects in dermal tissue, Draize score: >= 1.5 < 2.3
- Eye corrosive: 2A  
  Eye irritant: Subcategory 2A, Reversible in 21 days
- Carcinogen: 2  
  Limited evidence of human or animal carcinogenicity
- Reproductive toxin: 1B  
  Presumed, Based on experimental animals

GHS Hazards
- H226 Flammable liquid and vapour.
- H311 Toxic in contact with skin
- H316 Causes mild skin irritation
- H319 Causes serious eye irritation
- H351 Suspected of causing 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.
- P264 Wash equipment and contaminated skin thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P281 Use personal protective equipment as required
- P312 Call a POISON CENTER or doctor/physician if you feel unwell
- P322 Specific measures Remove contaminated clothing and protective equipment.
- P361 Remove/Take off immediately all contaminated clothing
- P363 Wash contaminated clothing before reuse
- P302+P352 IF ON SKIN: Wash with soap and water
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
- P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
- P308+P313 IF exposed or concerned: Get medical advice/attention
- P332+P313 If skin irritation occurs: Get medical advice/attention
- P337+P313 Get medical advice/attention
- P370+P378 In case of fire: Use CO2, water spray, foam, or dry chemical to extinguish.
- P405 Store locked up
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>24.83%</td>
</tr>
<tr>
<td>n-BUTYL ACETATE</td>
<td>123-86-4</td>
<td>9.14%</td>
</tr>
<tr>
<td>Mixed Xylenes</td>
<td>1330-20-7</td>
<td>6.25%</td>
</tr>
<tr>
<td>ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE</td>
<td>112-07-2</td>
<td>4.18%</td>
</tr>
<tr>
<td>PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE</td>
<td>108-65-6</td>
<td>3.68%</td>
</tr>
<tr>
<td>Methyl isoamyl ketone</td>
<td>110-12-3</td>
<td>2.63%</td>
</tr>
<tr>
<td>Kaolin</td>
<td>1332-58-7</td>
<td>2.10%</td>
</tr>
<tr>
<td>2-ETHYL BENZENE</td>
<td>100-41-4</td>
<td>1.89%</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: 9.00

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.

**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).

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>Titanium Dioxide Colorant</td>
<td>15 mg/m3 TWA (total dust)</td>
<td>10 mg/m3 TWA</td>
<td>Not Established</td>
</tr>
<tr>
<td>13463-67-7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>n-BUTYL ACETATE 123-86-4</td>
<td>150 ppm TWA; 710 mg/m3 TWA</td>
<td>200 ppm STEL</td>
<td>NIOSH: 150 ppm TWA; 710 mg/m3 TWA</td>
</tr>
<tr>
<td>Mixed Xylenes 1330-20-7</td>
<td>100 ppm TWA; 435 mg/m3 TWA</td>
<td>150 ppm STEL</td>
<td>200 ppm STEL; 950 mg/m3 STEL</td>
</tr>
<tr>
<td>ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE 112-07-2</td>
<td>Not Established</td>
<td>20 ppm TWA</td>
<td>NIOSH: 5 ppm TWA; 33 mg/m3 TWA</td>
</tr>
</tbody>
</table>

---

SDS for: A8-1604W

Printed: 8/3/2016 at 8:41:58AM

Page 3 of 7
<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>100 ppm TWA</th>
<th>50 ppm STEL</th>
<th>NIOSH</th>
<th>20 ppm TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl isoamyl ketone</td>
<td>100 ppm TWA; 475 mg/m³ TWA</td>
<td>50 ppm STEL</td>
<td>NIOSH: 50 ppm TWA; 240 mg/m³ TWA</td>
<td></td>
</tr>
<tr>
<td>Kaolin</td>
<td>15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)</td>
<td>2 mg/m³ TWA (particulate matter containing no asbestos and &lt;1% crystalline silica, respirable fraction)</td>
<td>NIOSH: 10 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable dust)</td>
<td></td>
</tr>
<tr>
<td>2-ETHYL BENZENE</td>
<td>100 ppm TWA; 435 mg/m³ TWA</td>
<td>20 ppm TWA</td>
<td>NIOSH: 100 ppm TWA; 435 mg/m³ TWA</td>
<td>125 ppm STEL; 545 mg/m³ STEL</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.

**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>Appearance</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>6.3 mmHg</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>4.4</td>
</tr>
<tr>
<td>DENSITY</td>
<td>10.97</td>
</tr>
<tr>
<td>Freezing point</td>
<td>N/A</td>
</tr>
<tr>
<td>Boiling range</td>
<td>136°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>
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<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>79 F, 26 C</td>
</tr>
<tr>
<td>Flammability</td>
<td>N/A</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>N/A</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>N/A</td>
</tr>
<tr>
<td>Coating VOC Lb/Gal</td>
<td>2.09</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.
Section 11 - Toxicological Information

Mixture Toxicity
Dermal Toxicity LD50: 494mg/kg
Inhalation Toxicity LC50: 300mg/L

Routes of Entry:

Exposure to this material may affect the following organs:

<table>
<thead>
<tr>
<th>Blood</th>
<th>Eyes</th>
<th>Kidneys</th>
<th>Liver</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>1.89</td>
<td>2-ETHYL BENZENE: IARC: Possible human carcinogen</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OSHA: listed</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>Titanium Dioxide Colorant</td>
<td>24.83</td>
<td>Titanium Dioxide Colorant: NIOSH: potential occupational</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>carcinogen</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>IARC: Possible human carcinogen</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OSHA: listed</td>
</tr>
</tbody>
</table>

Section 12 - Ecological Information

Ecological information: No data found.

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

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

ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE
48 Hr EC50 Daphnia magna: 37 mg/L
72 Hr EC50 Desmodesmus subspicatus: >500 mg/L

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE
96 Hr LC50 Pimephales promelas: 161 mg/L [static]
48 Hr EC50 Daphnia magna: >500 mg/L

Methyl isoamyl ketone
96 Hr LC50 Pimephales promelas: 159 mg/L [flow-through] (30 days old)
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:

- 100-41-4 2-ETHYL BENZENE 1.89 %
- 13463-67-7 Titanium Dioxide Colorant 24.83 %

HAZARDOUS AIR POLLUTANTS

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

MASSACHUSETTS RIGHT TO KNOW

- 100-41-4 2-ETHYL BENZENE 1.89 %
- 1332-58-7 Kaolin 2.10 %
- 110-12-3 Methyl isoamyl ketone 2.63 %
- 1330-20-7 Mixed Xylenes 6.25 %
- 123-86-4 n-BUTYL ACETATE 9.14 %
- 13463-67-7 Titanium Dioxide Colorant 24.83 %

NEW JERSEY RIGHT TO KNOW

- 100-41-4 2-ETHYL BENZENE 1.89 %
- 1332-58-7 Kaolin 2.10 %
- 110-12-3 Methyl isoamyl ketone 2.63 %
- 112-07-2 ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE 4.18 %
- 1330-20-7 Mixed Xylenes 6.25 %
- 123-86-4 n-BUTYL ACETATE 9.14 %

SDS for: A8-1604W

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13463-67-7  Titanium Dioxide Colorant  24.83 %

PENNSYLVANIA RIGHT TO KNOW
100-41-4  2-ETHYL BENZENE  1.89 %
1332-58-7  Kaolin  2.10 %
110-12-3  Methyl isoamyl ketone  2.63 %
1330-20-7  Mixed Xylenes  6.25 %
123-86-4  n-BUTYL ACETATE  9.14 %
13463-67-7  Titanium Dioxide Colorant  24.83 %

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

112-07-2  ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE
1330-20-7  Mixed Xylenes

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

<table>
<thead>
<tr>
<th>Country</th>
<th>Regulation</th>
<th>All Components Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU Risk Phrases</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Safety Phrase</td>
<td></td>
<td>- None</td>
</tr>
</tbody>
</table>

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>* 2</td>
<td>3</td>
<td>0</td>
<td>G</td>
</tr>
</tbody>
</table>

HMIS & NFPA Hazard Rating
Legend
* = Chronic Health Hazard
0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH

National Fire Protection Association (NFPA)

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Health</th>
<th>Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

Date Prepared:  8/3/2016

Reviewer Revision
SAFETY DATA SHEET

SECTION 1 - MANUFACTURER'S IDENTIFICATION

Product Name: INDURETHANE 6600 PLUS MTB    Product Code: A8-1605M
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

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GHS Ratings:

- Flammable liquid 3 Flash point >= 23°C and <= 60°C (140°F)
- Dermal Toxicity Acute Tox. 3 Dermal>200+<=1000mg/kg
- Skin corrosive 3 Reversible adverse effects in dermal tissue, Draize score: >= 1.5 < 2.3
- Eye corrosive 2A Eye irritant: Subcategory 2A, Reversible in 21 days
- Carcinogen 2 Limited evidence of human or animal carcinogenicity
- Reproductive toxin 1A Based on human evidence

GHS Hazards

- H226 Flammable liquid and vapour.
- H311 Toxic in contact with skin
- H316 Causes mild skin irritation
- H319 Causes serious eye irritation
- H351 Suspected of causing 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.
- P264 Wash equipment and contaminated skin thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P281 Use personal protective equipment as required
- P312 Call a POISON CENTER or doctor/physician if you feel unwell
- P322 Specific measures Remove contaminated clothing and protective equipment.
- P361 Remove/Take off immediately all contaminated clothing
- P363 Wash contaminated clothing before reuse
- P302+P352 IF ON SKIN: Wash with soap and water
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
- P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
- P308+P313 IF exposed or concerned: Get medical advice/attention
- P332+P313 If skin irritation occurs: Get medical advice/attention
- P337+P313 Get medical advice/attention
- P370+P378 In case of fire: Use CO2, water spray, foam, or dry chemical to extinguish.
- P405 Store locked up
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>
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<td>17.14%</td>
</tr>
<tr>
<td>n-BUTYL ACETATE</td>
<td>123-86-4</td>
<td>9.60%</td>
</tr>
<tr>
<td>Kaolin</td>
<td>1332-58-7</td>
<td>6.13%</td>
</tr>
<tr>
<td>Mixed Xylenes</td>
<td>1330-20-7</td>
<td>5.39%</td>
</tr>
<tr>
<td>ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE</td>
<td>112-07-2</td>
<td>5.31%</td>
</tr>
<tr>
<td>PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE</td>
<td>108-65-6</td>
<td>4.43%</td>
</tr>
<tr>
<td>Methyl isoamyl ketone</td>
<td>110-12-3</td>
<td>3.34%</td>
</tr>
<tr>
<td>2-ETHYL BENZENE</td>
<td>100-41-4</td>
<td>1.63%</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:** 9.00

**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.

**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).

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>Titanium Dioxide Colorant 13463-67-7</td>
<td>15 mg/m3 TWA (total dust)</td>
<td>10 mg/m3 TWA</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>Kaolin 1332-58-7</td>
<td>15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)</td>
<td>2 mg/m3 TWA (particulate matter containing no asbestos and &lt;1% crystalline silica, respirable fraction)</td>
<td>NIOSH: 10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)</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>6.0 mmHg</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>4.5</td>
</tr>
<tr>
<td>Density</td>
<td>10.52</td>
</tr>
<tr>
<td>Freezing point</td>
<td>N/A</td>
</tr>
<tr>
<td>Boiling range</td>
<td>136°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>79 F, 26 C</td>
</tr>
<tr>
<td>Flammability</td>
<td>N/A</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>N/A</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>N/A</td>
</tr>
<tr>
<td>Coating VOC Lb/Gal</td>
<td>3.17</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.
**Section 11 - Toxicological Information**

**Mixture Toxicity**

Dermal Toxicity LD50: 372mg/kg  
Inhalation Toxicity LC50: 344mg/L

**Routes of Entry:**

Exposure to this material may affect the following organs:

<table>
<thead>
<tr>
<th>Blood</th>
<th>Eyes</th>
<th>Kidneys</th>
<th>Liver</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>1.63</td>
<td>2-ETHYL BENZENE: IARC: Possible human carcinogen OSHA: listed</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>Titanium Dioxide Colorant</td>
<td>17.14</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**

**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

**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

**ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE**

48 Hr EC50 Daphnia magna: 37 mg/L

**PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE**

96 Hr LC50 Pimephales promelas: 161 mg/L [static]

**Methyl isoamyl ketone**

96 Hr LC50 Pimephales promelas: 159 mg/L [flow-through] (30 days old)
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:

- 100-41-4 2-ETHYL BENZENE 1.63 %
- 13463-67-7 Titanium Dioxide Colorant 17.14 %

HAZARDOUS AIR POLLUTANTS

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

MASSACHUSETTS RIGHT TO KNOW

- 100-41-4 2-ETHYL BENZENE 1.63 %
- 110-12-3 Methyl isoamyl ketone 3.34 %
- 1330-20-7 Mixed Xylenes 5.39 %
- 1332-58-7 Kaolin 6.13 %
- 123-86-4 n-BUTYLACETATE 9.60 %
- 13463-67-7 Titanium Dioxide Colorant 17.14 %

NEW JERSEY RIGHT TO KNOW

- 100-41-4 2-ETHYL BENZENE 1.63 %
- 110-12-3 Methyl isoamyl ketone 3.34 %
- 112-07-2 ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE 5.31 %
- 1330-20-7 Mixed Xylenes 5.39 %
- 1332-58-7 Kaolin 6.13 %
- 123-86-4 n-BUTYLACETATE 9.60 %
<table>
<thead>
<tr>
<th>Country</th>
<th>Regulation</th>
<th>All Components Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU Risk Phrases</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Safety Phrase</td>
<td></td>
<td>None</td>
</tr>
</tbody>
</table>

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

**National Fire Protection Association (NFPA)**

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Health</th>
<th>Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

Special

Reviewer Revision

Date Prepared: 8/3/2016
SECTION 1 - MANUFACTURER'S IDENTIFICATION

Product Name: INDURETHANE 6600 PLUS DTB    Product Code: A8-1606D
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)
- Dermal Toxicity Acute Tox. 3: Dermal>200+<=1000mg/kg
- Skin corrosive 3: Reversible adverse effects in dermal tissue, Draize score: >= 1.5 < 2.3
- Eye corrosive 2A: Eye irritant: Subcategory 2A, Reversible in 21 days
- Carcinogen 2: Limited evidence of human or animal carcinogenicity
- Reproductive toxin 1A: Based on human evidence

GHS Hazards

- H226: Flammable liquid and vapour.
- H311: Toxic in contact with skin
- H316: Causes mild skin irritation
- H319: Causes serious eye irritation
- H351: Suspected of causing 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.
- P264: Wash equipment and contaminated skin thoroughly after handling.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P281: Use personal protective equipment as required
- P312: Call a POISON CENTER or doctor/physician if you feel unwell
- P322: Specific measures Remove contaminated clothing and protective equipment.
- P361: Remove/Take off immediately all contaminated clothing
- P363: Wash contaminated clothing before reuse
- P302+P352: IF ON SKIN: Wash with soap and water
- P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
- P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
- P308+P313: IF exposed or concerned: Get medical advice/attention
- P322+P313: If skin irritation occurs: Get medical advice/attention
- P337+P313: Get medical advice/attention
- P370+P378: In case of fire: Use CO2, water spray, foam, or dry chemical to extinguish.
- P405: Store locked up
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>12.66%</td>
</tr>
<tr>
<td>n-BUTYL ACETATE</td>
<td>123-86-4</td>
<td>10.00%</td>
</tr>
<tr>
<td>Kaolin</td>
<td>1332-58-7</td>
<td>6.90%</td>
</tr>
<tr>
<td>Mixed Xylenes</td>
<td>1330-20-7</td>
<td>6.26%</td>
</tr>
<tr>
<td>ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE</td>
<td>112-07-2</td>
<td>5.72%</td>
</tr>
<tr>
<td>PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE</td>
<td>108-65-6</td>
<td>4.03%</td>
</tr>
<tr>
<td>Methyl isoamyl ketone</td>
<td>110-12-3</td>
<td>3.50%</td>
</tr>
<tr>
<td>2-ETHYL BENZENE</td>
<td>100-41-4</td>
<td>1.89%</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:** 9.00

Flammable Product

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

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**HAZARDOUS COMBUSTION PRODUCTS:** Oxides of carbon and hydrocarbons

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**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.

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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.

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**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

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<tr>
<th>Chemical Name / CAS No.</th>
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<th>ACGIH Exposure Limits</th>
<th>Other Exposure Limits</th>
</tr>
</thead>
<tbody>
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<td>10 mg/m3 TWA</td>
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</tr>
<tr>
<td>13463-67-7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>n-BUTYL ACETATE</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</td>
</tr>
<tr>
<td>123-86-4</td>
<td></td>
<td></td>
<td>200 ppm STEL; 950 mg/m3 STEL</td>
</tr>
<tr>
<td>Kaolin</td>
<td>15 mg/m3 TWA (total dust); 5</td>
<td>2 mg/m3 TWA (particulate</td>
<td>NIOSH: 10 mg/m3 TWA (total dust); 5 mg/m3 TWA  (respirable dust)</td>
</tr>
<tr>
<td>1332-58-7</td>
<td>mg/m3 TWA (respirable fraction)</td>
<td>(particulate matter containing no asbestos and &lt;1% crystalline silica, respirable fraction)</td>
<td></td>
</tr>
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<td>Mixed Xylenes</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>1330-20-7</td>
<td></td>
<td></td>
<td></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.

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>Appearance</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>6.0 mmHg</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>4.5</td>
</tr>
<tr>
<td>Density</td>
<td>10.16</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Boiling Range</td>
<td>136°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: N/A</td>
<td></td>
</tr>
<tr>
<td>Odor threshold: N/A</td>
<td></td>
</tr>
<tr>
<td>pH: N/A</td>
<td></td>
</tr>
<tr>
<td>Melting point: N/A</td>
<td></td>
</tr>
<tr>
<td>Solubility: N/A</td>
<td></td>
</tr>
<tr>
<td>Flash point: 79 F, 26 C</td>
<td></td>
</tr>
<tr>
<td>Flammability: N/A</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water):</td>
<td>2.23</td>
</tr>
<tr>
<td>Decomposition temperature: N/A</td>
<td></td>
</tr>
<tr>
<td>Coating VOC Lb/Gal</td>
<td>2.23</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**
- Dermal Toxicity LD50: 343mg/kg
- Inhalation Toxicity LC50: 297mg/L

**Routes of Entry:**

Exposure to this material may affect the following organs:

<table>
<thead>
<tr>
<th>Blood</th>
<th>Eyes</th>
<th>Kidneys</th>
<th>Liver</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>1.89</td>
<td>2-ETHYL BENZENE: IARC: Possible human carcinogen</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>Titanium Dioxide Colorant</td>
<td>12.66</td>
<td>Titanium Dioxide Colorant: NIOSH: potential occupational carcinogen</td>
</tr>
</tbody>
</table>

**Section 12 - Ecological Information**

Ecological information: No data found.

**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

- 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

- ETHYLENE GLYCOL
  - 48 Hr EC50 Daphnia magna: 37 mg/L

- MONOBUTYL ETHER ACETATE
  - 72 Hr EC50 Desmodesmus subspicatus: >500 mg/L

- PROPYLENE GLYCOL
  - 96 Hr LC50 Pimephales promelas: 161 mg/L [static]

- MONOMETHYL ETHER ACETATE
  - 48 Hr EC50 Daphnia magna: >500 mg/L

- Methyl isoamyl ketone
  - 96 Hr LC50 Pimephales promelas: 159 mg/L [flow-through] (30 days old)
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:

100-41-4 2-ETHYL BENZENE 1.89 %
13463-67-7 Titanium Dioxide Colorant 12.66 %

HAZARDOUS AIR POLLUTANTS

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

MASSACHUSETTS RIGHT TO KNOW

100-41-4 2-ETHYL BENZENE 1.89 %
110-12-3 Methyl isomyl ketone 3.50 %
1330-20-7 Mixed Xylenes 6.26 %
1332-58-7 Kaolin 6.90 %
123-86-4 n-BUTYLACETATE 10.00 %
13463-67-7 Titanium Dioxide Colorant 12.66 %

NEW JERSEY RIGHT TO KNOW

100-41-4 2-ETHYL BENZENE 1.89 %
110-12-3 Methyl isomyl ketone 3.50 %
112-07-2 ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE 5.72 %
1330-20-7 Mixed Xylenes 6.26 %
1332-58-7 Kaolin 6.90 %
123-86-4 n-BUTYLACETATE 10.00 %
<table>
<thead>
<tr>
<th>Country</th>
<th>Regulation</th>
<th>All Components Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU Risk Phrases</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Safety Phrase**

- None

### 16: OTHER INFORMATION

**Hazardous Material Information System (HMIS)**

- HEALTH
  - * Chronic Health Hazard
  - 2 = SLIGHT
  - 3 = MODERATE
  - 4 = HIGH

- FLAMMABILITY
  - 1 = INSIGNIFICANT
  - 2 = MODERATE
  - 3 = HIGH

- PHYSICAL HAZARD
  - 0 = INSIGNIFICANT

- PERSONAL PROTECTION
  - G

**National Fire Protection Association (NFPA)**

- Flammability
  - 1 = LOW
  - 2 = MODERATE
  - 3 = HIGH

- Health
  - 1 = LOW
  - 2 = MODERATE
  - 3 = HIGH

- Instability
  - 0 = LOW
  - 1 = MODERATE

Date Prepared: 8/3/2016
Safety Data Sheet

Section 1 - Manufacturer's Identification

Product Name: INDURETHANE 6600 PLUS CTB    Product Code: A8-1607C
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)
- Dermal Toxicity: Acute Tox. 3 Dermal>200+<=1000mg/kg
- Skin corrosive: 3 Reversible adverse effects in dermal tissue, Draize score: >= 1.5 < 2.3
- Eye corrosive: 2A Eye irritant: Subcategory 2A, Reversible in 21 days
- Carcinogen: 2 Limited evidence of human or animal carcinogenicity
- Reproductive toxin: 1A Based on human evidence

GHS Hazards
- H226 Flammable liquid and vapour.
- H311 Toxic in contact with skin
- H316 Causes mild skin irritation
- H319 Causes serious eye irritation
- H351 Suspected of causing 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.
- P264 Wash equipment and contaminated skin thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P281 Use personal protective equipment as required
- P312 Call a POISON CENTER or doctor/physician if you feel unwell
- P322 Specific measures Remove contaminated clothing and protective equipment.
- P361 Remove/Take off immediately all contaminated clothing
- P363 Wash contaminated clothing before reuse
- P302+P352 IF ON SKIN: Wash with soap and water
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
- P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
- P308+P313 IF exposed or concerned: Get medical advice/attention
- P332+P333 If skin irritation occurs: Get medical advice/attention
- P337+P313 Get medical advice/attention
- P370+P378 In case of fire: Use CO2, water spray, foam, or dry chemical to extinguish.
- P405 Store locked up

SDS for: A8-1607C
Page 1 of 7
Printed: 8/3/2016 at 9:18:39AM
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>n-BUTYL ACETATE</td>
<td>123-86-4</td>
<td>12.99%</td>
</tr>
<tr>
<td>Mixed Xylenes</td>
<td>1330-20-7</td>
<td>6.52%</td>
</tr>
<tr>
<td>PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE</td>
<td>108-65-6</td>
<td>5.15%</td>
</tr>
<tr>
<td>Kaolin</td>
<td>1332-58-7</td>
<td>4.35%</td>
</tr>
<tr>
<td>ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE</td>
<td>112-07-2</td>
<td>4.30%</td>
</tr>
<tr>
<td>Methyl isoamyl ketone</td>
<td>110-12-3</td>
<td>3.21%</td>
</tr>
<tr>
<td>2-ETHYL BENZENE</td>
<td>100-41-4</td>
<td>1.97%</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:** 9.00

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.
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).

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>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>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>PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE 108-65-6</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
<tr>
<td>Kaolin 1332-58-7</td>
<td>15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)</td>
<td>2 mg/m3 TWA (particulate matter containing no asbestos and &lt;1% crystalline silica, respirable fraction)</td>
<td>NIOSH: 10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)</td>
</tr>
<tr>
<td>ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE 112-07-2</td>
<td>Not Established</td>
<td>20 ppm TWA</td>
<td>NIOSH: 5 ppm TWA; 33 mg/m3 TWA</td>
</tr>
<tr>
<td>--------------------------------------------------</td>
<td>----------------</td>
<td>------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>Methyl isomyl ketone 110-12-3</td>
<td>100 ppm TWA; 475 mg/m3 TWA</td>
<td>50 ppm STEL 20 ppm TWA</td>
<td>NIOSH: 50 ppm TWA; 240 mg/m3 TWA</td>
</tr>
<tr>
<td>2-ETHYL BENZENE 100-41-4</td>
<td>100 ppm TWA; 435 mg/m3 TWA</td>
<td>20 ppm TWA</td>
<td>NIOSH: 100 ppm TWA; 435 mg/m3 TWA 125 ppm STEL; 545 mg/m3 STEL</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.

**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>Appearance:</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>6.7 mmHg</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>4.3</td>
</tr>
<tr>
<td>Density:</td>
<td>9.12</td>
</tr>
<tr>
<td>Freezing point:</td>
<td>N/A</td>
</tr>
<tr>
<td>Boiling range:</td>
<td>136°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>79°F, 26°C</td>
</tr>
<tr>
<td>Flammability:</td>
<td>N/A</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water):</td>
<td>N/A</td>
</tr>
<tr>
<td>Decomposition temperature:</td>
<td>N/A</td>
</tr>
<tr>
<td>Coating VOC Lb/Gal:</td>
<td>3.16</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
Dermal Toxicity LD50: 337mg/kg
Inhalation Toxicity LC50: 129mg/L

Routes of Entry:

Exposure to this material may affect the following organs:

<table>
<thead>
<tr>
<th>Blood</th>
<th>Eyes</th>
<th>Kidneys</th>
<th>Liver</th>
<th>Central Nervous System</th>
<th>Skin</th>
<th>Respiratory</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>1.97</td>
<td>2-ETHYL BENZENE: IARC:</td>
</tr>
</tbody>
</table>

Ecological Information: No data found.

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

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: 13.5 - 17.3 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

PROPYLENE GLYCOL
96 Hr LC50 Pimephales promelas: 161 mg/L [static]

MONOMETHYL ETHER ACETATE
48 Hr EC50 Daphnia magna: >500 mg/L

ETHYLENE GLYCOL
96 Hr LC50 Desmodesmus subspicatus: >500 mg/L

MONOButyl ETHER ACETATE
72 Hr EC50 Desmodesmus subspicatus: >500 mg/L

Methyl isobutyl ketone 96 Hr LC50 Pimephales promelas: 159 mg/L [flow-through] (30 days old)

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: 2.6 - 11.3 mg/L [static]; 96 Hr EC50 Pseudokirchneriella subcapitata: 1.7 - 7.6 mg/L [static]

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 regulations applicable to your waste.
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).

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**Section 14 - Transport Information**

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<tbody>
<tr>
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<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:

1. 100-41-4 2-ETHYL BENZENE 1.97 %

HAZARDOUS AIR POLLUTANTS

1. 100-41-4 2-ETHYL BENZENE
2. 1330-20-7 Mixed Xylenes

MASSACHUSETTS RIGHT TO KNOW

1. 100-41-4 2-ETHYL BENZENE 1.97 %
2. 110-12-3 Methyl isoamyl ketone 3.21 %
3. 1332-58-7 Kaolin 4.35 %
4. 1330-20-7 Mixed Xylenes 6.52 %
5. 123-86-4 n-BUTYL ACETATE 12.99 %

NEW JERSEY RIGHT TO KNOW

1. 100-41-4 2-ETHYL BENZENE 1.97 %
2. 110-12-3 Methyl isoamyl ketone 3.21 %
3. 112-07-2 ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE 4.30 %
4. 1332-58-7 Kaolin 4.35 %
5. 1330-20-7 Mixed Xylenes 6.52 %
6. 123-86-4 n-BUTYL ACETATE 12.99 %

PENNSYLVANIA RIGHT TO KNOW

1. 100-41-4 2-ETHYL BENZENE 1.97 %
2. 110-12-3 Methyl isoamyl ketone 3.21 %
3. 1332-58-7 Kaolin 4.35 %
4. 1330-20-7 Mixed Xylenes 6.52 %
5. 123-86-4 n-BUTYL ACETATE 12.99 %

CHEMICAL LIST FOR SARA 311

1. 1330-20-7 Mixed Xylenes
2. 112-07-2 ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE
3. 1330-20-7 Mixed Xylenes

CHEMICAL LIST FOR SARA 313
SAFETY DATA SHEET

SECTION 1 - MANUFACTURER'S IDENTIFICATION

Product Name: INDURETHANE 6600 PLUS POLAR WHITE    Product Code: A8-1608
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>Category</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>Dermal Toxicity</td>
<td>Acute Tox. 3</td>
<td>Dermal&gt;200+&lt;=1000mg/kg</td>
</tr>
<tr>
<td>Skin corrosive</td>
<td>3</td>
<td>Reversible adverse effects in dermal tissue, Draize score: &gt;= 1.5 &lt; 2.3</td>
</tr>
<tr>
<td>Eye corrosive</td>
<td>2A</td>
<td>Eye irritant: Subcategory 2A, Reversible in 21 days</td>
</tr>
<tr>
<td>Carcinogen</td>
<td>2</td>
<td>Limited evidence of human or animal carcinogenicity</td>
</tr>
<tr>
<td>Reproductive toxin</td>
<td>1B</td>
<td>Presumed, Based on experimental animals</td>
</tr>
</tbody>
</table>

GHS Hazards

- H226 Flammable liquid and vapour.
- H311 Toxic in contact with skin
- H316 Causes mild skin irritation
- H319 Causes serious eye irritation
- H351 Suspected of causing 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.
- P264 Wash equipment and contaminated skin thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P281 Use personal protective equipment as required
- P312 Call a POISON CENTER or doctor/physician if you feel unwell
- P322 Specific measures Remove contaminated clothing and protective equipment.
- P361 Remove/Take off immediately all contaminated clothing
- P363 Wash contaminated clothing before reuse
- P302+P352 IF ON SKIN: Wash with soap and water
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
- P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
- P308+P313 IF exposed or concerned: Get medical advice/attention
- P332+P313 If skin irritation occurs: Get medical advice/attention
- P337+P313 Get medical advice/attention
- P370+P378 In case of fire: Use CO2, water spray, foam, or dry chemical to extinguish.
- P405 Store locked up
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>24.31%</td>
</tr>
<tr>
<td>n-BUTYL ACETATE</td>
<td>123-86-4</td>
<td>9.17%</td>
</tr>
<tr>
<td>Mixed Xylenes</td>
<td>1330-20-7</td>
<td>6.41%</td>
</tr>
<tr>
<td>ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE</td>
<td>112-07-2</td>
<td>4.19%</td>
</tr>
<tr>
<td>PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE</td>
<td>108-65-6</td>
<td>3.70%</td>
</tr>
<tr>
<td>Methyl isoamyl ketone</td>
<td>110-12-3</td>
<td>2.63%</td>
</tr>
<tr>
<td>Kaolin</td>
<td>1332-58-7</td>
<td>2.11%</td>
</tr>
<tr>
<td>2-ETHYL BENZENE</td>
<td>100-41-4</td>
<td>1.93%</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:** 9.00
- **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.

**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).

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>Titanium Dioxide Colorant 13463-67-7</td>
<td>15 mg/m3 TWA (total dust)</td>
<td>10 mg/m3 TWA</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>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>ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE 112-07-2</td>
<td>Not Established</td>
<td>20 ppm TWA</td>
<td>NIOSH: 5 ppm TWA; 33 mg/m3 TWA</td>
</tr>
<tr>
<td>Chemical</td>
<td>TWA / STEL / NIOSH Limits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>---------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methyl isoamyl ketone</td>
<td>100 ppm TWA; 475 mg/m³ TWA</td>
<td>50 ppm STEL; 20 ppm TWA</td>
<td>NIOSH: 50 ppm TWA; 240 mg/m³ TWA</td>
</tr>
<tr>
<td>Kaolin</td>
<td>15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)</td>
<td>2 mg/m³ TWA (particulate matter containing no asbestos and &lt;1% crystalline silica, respirable fraction)</td>
<td>NIOSH: 10 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable dust)</td>
</tr>
<tr>
<td>2-ETHYL BENZENE</td>
<td>100 ppm TWA; 435 mg/m³ TWA</td>
<td>20 ppm TWA</td>
<td>NIOSH: 100 ppm TWA; 435 mg/m³ TWA; 125 ppm STEL; 545 mg/m³ STEL</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.

**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:

- **Appearance**: N/A
- **Vapor Pressure**: 6.3 mmHg
- **Vapor Density**: 4.4
- **Density**: 10.91
- **Freezing point**: N/A
- **Boiling range**: 136°C
- **Evaporation rate**: N/A
- **Explosive Limits**: N/A
- **Autoignition temperature**: N/A
- **Viscosity**: N/A
- **Odor**: N/A
- **Odor threshold**: N/A
- **pH**: N/A
- **Melting point**: N/A
- **Solubility**: N/A
- **Flash point**: 79 F, 26 C
- **Flammability**: N/A
- **Partition coefficient (n-octanol/water)**: N/A
- **Decomposition temperature**: N/A
- **Coating VOC Lb/Gal**: 3.10

### 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**

Dermal Toxicity LD50: 489mg/kg
Inhalation Toxicity LC50: 293mg/L

Routes of Entry:

Exposure to this material may affect the following organs:

<table>
<thead>
<tr>
<th>Blood</th>
<th>Eyes</th>
<th>Kidneys</th>
<th>Liver</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>1.93</td>
<td>2-ETHYL BENZENE: IARC: Possible human carcinogen OSHA: listed</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>Titanium Dioxide Colorant</td>
<td>24.31</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**

**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

**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

**ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE**
48 Hr EC50 Daphnia magna: 37 mg/L
72 Hr EC50 Desmodesmus subspicatus: >500 mg/L

**PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE**
96 Hr LC50 Pimephales promelas: 161 mg/L [static]
48 Hr EC50 Daphnia magna: >500 mg/L

**Methyl isoamyl ketone**
96 Hr LC50 Pimephales promelas: 159 mg/L [flow-through] (30 days old)
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]

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:

- 100-41-4 2-ETHYL BENZENE 1.93 %
- 13463-67-7 Titanium Dioxide Colorant 24.31 %

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

MASSACHUSETTS RIGHT TO KNOW
- 100-41-4 2-ETHYL BENZENE 1.93 %
- 1332-58-7 Kaolin 2.11 %
- 110-12-3 Methyl isobutyl ketone 2.63 %
- 1330-20-7 Mixed Xylenes 6.41 %
- 123-86-4 n-BUTYL ACETATE 9.17 %
- 13463-67-7 Titanium Dioxide Colorant 24.31 %

NEW JERSEY RIGHT TO KNOW
- 100-41-4 2-ETHYL BENZENE 1.93 %
- 1332-58-7 Kaolin 2.11 %
- 110-12-3 Methyl isobutyl ketone 2.63 %
- 112-07-2 ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE 4.19 %
- 1330-20-7 Mixed Xylenes 6.41 %
- 123-86-4 n-BUTYL ACETATE 9.17 %

SDS for: A8-1608
13463-67-7  Titanium Dioxide Colorant  24.31 %

**PENNSYLVANIA RIGHT TO KNOW**
100-41-4  2-ETHYL BENZENE  1.93 %
1332-58-7  Kaolin  2.11 %
110-12-3  Methyl isoamyl ketone  2.63 %
1330-20-7  Mixed Xylenes  6.41 %
123-86-4  n-BUTYL ACETATE  9.17 %
13463-67-7  Titanium Dioxide Colorant  24.31 %

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

112-07-2  ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE
1330-20-7  Mixed Xylenes

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

<table>
<thead>
<tr>
<th>Country</th>
<th>Regulation</th>
<th>All Components Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**EU Risk Phrases**

**Safety Phrase**
- None

---

### 16: OTHER INFORMATION

**Hazardous Material Information System (HMIS)**

- **HEALTH**: 2
- **FLAMMABILITY**: 3
- **PHYSICAL HAZARD**: 0
- **PERSONAL PROTECTION**: G

**National Fire Protection Association (NFPA)**

- **Flammability**: 3
- **Health**: 2
- **Instability**: 0

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

Date Prepared: 8/3/2016

Reviewer Revision
SECTION 1 - MANUFACTURER'S IDENTIFICATION

Product Name: INDURETHANE ACTIVATOR     Product Code: Q8-1212
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+P352 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>Naptha(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 absorbant 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 absorbant 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 Diisocyanate. 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>
</tbody>
</table>
HEXAMETHYLENE DIISOCYANATE
822-06-0  
Not Established  0.005 ppm TWA  NIOSH: 0.005 ppm TWA; 0.035 mg/m³ TWA
0.020 ppm Ceiling (10 min); 0.140 mg/m³ Ceiling (10 min)

* 1,2,4-TRIMETHYL BENZENE  
95-63-6  
Not Established  Not Established  NIOSH: 25 ppm TWA; 125 mg/m³ TWA

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>Vapor Pressure</td>
<td>6.1 mmHg</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>4.3</td>
</tr>
<tr>
<td>Density</td>
<td>9.84</td>
</tr>
<tr>
<td>Freezing point</td>
<td>N/A</td>
</tr>
<tr>
<td>Boiling range</td>
<td>126°C</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>N/A</td>
</tr>
<tr>
<td>Flammability</td>
<td>N/A</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>N/A</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>N/A</td>
</tr>
<tr>
<td>Appearance</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>117 F, 47 C</td>
</tr>
<tr>
<td>Lb VOC/Gal less water and exempt</td>
<td>0.49</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>
</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.

<table>
<thead>
<tr>
<th>Section 11 - Toxicological Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mixture Toxicity</strong></td>
</tr>
<tr>
<td>Oral Toxicity LD50: 84mg/kg</td>
</tr>
<tr>
<td>Inhalation Toxicity LC50: 5mg/L</td>
</tr>
</tbody>
</table>

Routes of Entry: Skin, Eyes, Breathing

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

<table>
<thead>
<tr>
<th>Blood</th>
<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>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>

<table>
<thead>
<tr>
<th>Section 12 - Ecological Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Component Ecotoxicity</strong></td>
</tr>
<tr>
<td>n-BUTYL ACETATE</td>
</tr>
<tr>
<td>96 Hr LC50 Lepomis macrochirus: 100 mg/L [static]; 96 Hr LC50 Pimephales promelas: 17 - 19 mg/L [flow-through]</td>
</tr>
<tr>
<td>72 Hr EC50 Desmodesmus subspicatus: 674.7 mg/L</td>
</tr>
<tr>
<td>Naptha(Pet), light arom.</td>
</tr>
<tr>
<td>96 Hr LC50 Oncorhynchus mykiss: 9.22 mg/L</td>
</tr>
<tr>
<td>48 Hr EC50 Daphnia magna: 6.14 mg/L</td>
</tr>
<tr>
<td>Mixed Xylenes</td>
</tr>
<tr>
<td>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 Pimephales promelas: 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: &gt;780 mg/L; 96 Hr LC50 Poecilia reticulata: 30.26 - 40.75 mg/L [static]; 96 Hr LC50 water flea: 3.82 mg/L; 48 Hr LC50 Gammarus lacustris: 0.6 mg/L</td>
</tr>
<tr>
<td>Benzene, 1,3,5-trimethyl</td>
</tr>
<tr>
<td>96 Hr LC50 Pimephales promelas: 3.48 mg/L</td>
</tr>
<tr>
<td>HEXAMETHYLENE DIISOCYANATE</td>
</tr>
<tr>
<td>96 Hr LC50 Brachydanio rerio: 26.1 mg/L [static]</td>
</tr>
<tr>
<td>* 1,2,4-TRIMETHYL BENZENE</td>
</tr>
<tr>
<td>96 Hr LC50 Pimephales promelas: 7.19 - 8.28 mg/L [flow-through]</td>
</tr>
<tr>
<td>48 Hr EC50 Daphnia magna: 6.14 mg/L</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 13 - Disposal Considerations</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
<tr>
<td>The US EPA Hazardous Waste Numbers which follow are applicable to this unadulterated product if the product enters the &quot;waste stream.&quot; 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).</td>
</tr>
</tbody>
</table>

SDS for: Q8-1212

Printed: 7/28/2016 at 11:08:54AM
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

HAZARDOUS AIR POLLUTANTS
822-06-0  HEXAMETHYLENE DIISOCYANATE
1330-20-7  Mixed Xylenes

MASSACHUSETTS RIGHT TO KNOW
95-63-6  * 1,2,4-TRIMETHYL BENZENE  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 %
1330-20-7  Mixed Xylenes  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

16: OTHER INFORMATION
Date Prepared: 7/28/2016