Section 1: Manufacturer's Identification

Product Name: PERMA-CLEAN II WHITE INTERMEDIATE    Product Code: A4-1111
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: 2 - Flash point < 23°C and initial boiling point > 35°C (95°F)
- Oral Toxicity: Acute Tox. 3 - Oral>50+<=300mg/kg
- Dermal Toxicity: Acute Tox. 3 - Dermal>200+<=1000mg/kg
- Skin corrosive: 2 - Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation
- Eye corrosive: 2A - Eye irritant: Subcategory 2A, Reversible in 21 days
- Skin sensitizer: 1 - Skin sensitizer
- Carcinogen: 2 - Limited evidence of human or animal carcinogenicity
- Reproductive toxin: 1B - Presumed, Based on experimental animals

GHS Hazards:

- H225 - Highly flammable
- H301 - Toxic if swallowed
- H311 - Toxic in contact with skin
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- 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.
- P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 - Wash equipment and contaminated skin thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product
- P272 - Contaminated work clothing should not be allowed out of the workplace.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P281 - Use personal protective equipment as required
- P312 - Call a POISON CENTER or doctor/physician if you feel unwell
- P322 - Specific measures Remove contaminated clothing and protective equipment.
- P330 - Rinse mouth
- P361 - Remove/Take off immediately all contaminated clothing
- P362 - Take off contaminated clothing and wash before reuse
- P363 - Wash contaminated clothing before reuse
Signal Word: Danger

This product can be a skin and eye sensitizer. The material should be washed from skin or flushed from eyes immediately. Contaminated clothing should be removed. Wear proper protective equipment. Any other acute toxicalogical information can be found in section 11. Approximately 2% of the population can develop skin sensitivity with increasing inflammation and allergic reactions with repeated exposure.

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>10.00% - 20.00%</td>
</tr>
<tr>
<td>Dimethyl Carbonate</td>
<td>616-38-6</td>
<td>10.00% - 20.00%</td>
</tr>
<tr>
<td>Diglycidyl Ether of Bisphenol A</td>
<td>25068-38-6</td>
<td>10.00% - 20.00%</td>
</tr>
<tr>
<td>Kaolin</td>
<td>1332-58-7</td>
<td>10.00% - 20.00%</td>
</tr>
<tr>
<td>Talc (hydrous magnesium silicate)</td>
<td>14807-96-6</td>
<td>5.00% - 10.00%</td>
</tr>
<tr>
<td>4-METHYL-2-PENTANONE</td>
<td>108-10-1</td>
<td>1.00% - 5.00%</td>
</tr>
<tr>
<td>* 1,2,4-TRIMETHYL BENZENE</td>
<td>95-63-6</td>
<td>1.00% - 5.00%</td>
</tr>
<tr>
<td>Mixed Xylenes</td>
<td>1330-20-7</td>
<td>1.00% - 5.00%</td>
</tr>
<tr>
<td>Methyl Ethyl Ketone</td>
<td>78-93-3</td>
<td>1.00% - 5.00%</td>
</tr>
<tr>
<td>Benzene,1,2,5-trimethyl</td>
<td>526-73-8</td>
<td>1.00% - 5.00%</td>
</tr>
<tr>
<td>Benzene,1,3,5-trimethyl</td>
<td>108-67-8</td>
<td>1.00% - 5.00%</td>
</tr>
<tr>
<td>ISOPROPAKOL</td>
<td>67-63-0</td>
<td>1.00% - 5.00%</td>
</tr>
<tr>
<td>2-ETHYL BENZENE</td>
<td>100-41-4</td>
<td>0.10% - 1.00%</td>
</tr>
<tr>
<td>Cumene</td>
<td>98-82-8</td>
<td>0.10% - 1.00%</td>
</tr>
</tbody>
</table>

Section 4: First Aid Measures

Move the exposed person to fresh air. If vapors are still present the rescuer should wear the appropriate mask. If breathing is irregular or arrest occurs use artificial respiration by trained personnel. Loosen tight fitting clothing. Get medical aid immediately. Immediately flush eyes with plenty of water for at least 15 minutes. Regularly lift upper and lower eyelids during flushing. Remove contact lenses. Get medical aid.
Flush contaminated skin with water. Remove contaminated cloths, avoiding skin contact while doing so. Get medical attention. Clean contaminated shoes thoroughly before reuse. Wash mouth out thoroughly. Do not induce vomiting unless directed by medical personnel. Get medical attention. No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Section 5: Fire Fighting Measures**

Flash Point: -5 C (23 F)

LEL: 1.00 UEL: 8.00

For flammable liquid: Can burst from pressure if in sealed container and heated, with risk of subsequent explosion. Vapors are heavier than air, can spread on ground and collect in low lying areas. Runoff to a collection area can create a fire or explosion hazard.

Dry Chemical, CO2, water spray(fog), or foam. Do not use water jet.

Isolate scene removing persons not trained if there is a fire. Move containers from fire area if there is no risk. Use water spray to keep fire exposed containers cool.

Decomposition products may include the following materials: Carbon Oxides.

Fire fighters should wear appropriate protective equipment and well-contain breathing apparatus.

Use dry chemical, CO2, water spray(fog) or foam. Do not use water jet.

**Section 6: Accidental Release Measures**

No action should be taken with untrained personnel. Evacuate surrounding areas. Do not touch or walk through spill. Shut off all ignition sources. Provide adequate ventilation. Use appropriate protective equipment. Do not breath dust, mist, or vapor.

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble, or absorb with inert dry material and place in appropriate waste container. Dispose via licensed waste disposal.

Stop leak if without risk. Move containers from area. Approach from upwing. Prevent run off to water source, basements, sewers, or confined areas. Contain and collect spillage with non combustible, absorbent materials, sand, vermiculite, diatomic earth and dispose by local regulation. Use sark-proof tools and explosion roof equipment.

**Section 7: Handling and Storage**

Use appropriate personal protective equipment. No eating, drinking, or smoking in areas of use. Persons with a history of skin sensitization should not be employed in any process in which this product is used. Avoid exposure during pregnancy. Do not ingest. Use adequate ventilation or respirator. Keep in appropriate container avoiding open flames, sparks or other ignition sources. Use explosion proof equipment and non sparking tools. Use proper grounding procedures.

Store in designated flammable liquid storage areas. Protect from direct sunlight in dry, cool ventilated areas. Keep food and drink away from area. Eliminate all ignition sources. Opened containers must be carefully resealed and kept upright.

Do not use unlabeled containers. Use appropriate containment.

**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>Dimethyl Carbonate 616-38-6</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
<tr>
<td>Diglycidyl Ether of Bisphenol A 25068-38-6</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
<tr>
<td>Chemical Name</td>
<td>TWA Limits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------------</td>
<td>------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kaolin 1332-58-7</td>
<td>15 mg/m³ total dust; 5 mg/m³ respirable fraction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Talc (hydrous magnesium silicate) 14807-96-6</td>
<td>Not Established</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4-METHYL-2-PENTANONE 108-10-1</td>
<td>100 ppm TWA; 410 mg/m³ TWA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>* 1,2,4-TRIMETHYL BENZENE 95-63-6</td>
<td>Not Established</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mixed Xylenes 1330-20-7</td>
<td>100 ppm TWA; 435 mg/m³ TWA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methyl Ethyl Ketone 78-93-3</td>
<td>200 ppm TWA; 590 mg/m³ TWA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Benzene, 1,2,5-trimethyl 526-73-8</td>
<td>Not Established</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Benzene, 1,3,5-trimethyl 108-67-8</td>
<td>Not Established</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ISOPROPA NOL 67-63-0</td>
<td>400 ppm TWA; 980 mg/m³ TWA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-ETHYL BENZENE 100-41-4</td>
<td>100 ppm TWA; 435 mg/m³ TWA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cumene 98-82-8</td>
<td>50 ppm TWA; 245 mg/m³ TWA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to meet exposure to airborne contaminants above statutory limits. Use appropriate controls to keep concentration below explosive limits. Ensure adequate ventilation by standard emission testing procedures. Use appropriate respiratory equipment when needed. Assure safety training of operators in regards to handling liquids and vapors. Follow local regulatory rules of exposure control using air purifying or air supplied mask as needed. Use appropriate protective equipment according to OSHA and NAFTA standards and labeling. Ensure eye wash stations and safety showers are available. Wash contaminated gear and clothing before reuse.

**Section 9: Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Viscosity</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Appearance</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Vapor Pressure</strong></td>
<td>12.8 mmHg</td>
</tr>
<tr>
<td><strong>Vapor Density</strong></td>
<td>3.4</td>
</tr>
<tr>
<td><strong>Density</strong></td>
<td>11.91</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Coating VOC Lb/Gal</strong></td>
<td>2.53</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Odor threshold</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Melting point</strong></td>
<td>N/A</td>
</tr>
</tbody>
</table>
Section 10: Stability and Reactivity

These materials are stable. Under normal conditions of storage and use hazardous reactions or polymerization will not occur. Avoid all source of ignitions, sparks or flames. Do not allow vapor to accumulate in low lying areas.

STABLE

Do not expose to strong oxidizing agents, strong acids, or aliphatic amines.

Under normal use, no hazardous decomposition products are produced.

Hazardous polymerization will not occur.

Section 11: Toxicological Information

Mixture Toxicity

Oral Toxicity LD50: 63mg/kg
Dermal Toxicity LD50: 695mg/kg
Inhalation Toxicity LC50: 105mg/L

Routes of Entry:

Inhalation Skin Contact Eye Contact Ingestion

Exposure to this material may affect the following organs:

Blood Eyes Kidneys Liver Central Nervous System Skin Cardiovascular System Respiratory System

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 to 1.0%</td>
<td>2-ETHYL BENZENE: IARC: Possible human carcinogen OSHA: listed</td>
</tr>
<tr>
<td>108-10-1</td>
<td>4-METHYL-2-PENTANONE</td>
<td>1 to 5%</td>
<td>4-METHYL-2-PENTANONE: IARC: Possible human carcinogen OSHA: listed</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>Titanium Dioxide Colorant</td>
<td>10 to 20%</td>
<td>Titanium Dioxide Colorant: NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed</td>
</tr>
<tr>
<td>98-82-8</td>
<td>Cumene</td>
<td>.1 to 1.0%</td>
<td>Cumene: IARC: Possible human carcinogen OSHA: listed</td>
</tr>
</tbody>
</table>

Section 13: Ecological

No known significant effects or critical hazards.
### Component Ecotoxicity

<table>
<thead>
<tr>
<th>Component</th>
<th>96 Hr LC50 Brachydanio rerio: &gt;100 g/L [semi-static]</th>
<th>4-Hr EC50 Daphnia magna: 170 mg/L</th>
<th>96 Hr EC50 Pseudokirchneriella subcapitata: 400 mg/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc (hydrous magnesium silicate)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4-METHYL-2-PENTANONE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>* 1,2,4-TRIMETHYL BENZENE</td>
<td>96 Hr LC50 Pimephales promelas: 7.19 - 8.28 mg/L [flow-through]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mixed Xylenes</td>
<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 Lepomis macrochirus: 13.5 - 17.3 mg/L; 96 Hr LC50 Lepomis macrochirus: 7.111 - 18.4 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]</td>
<td>48 Hr EC50 water flea: 3.82 mg/L; 48 Hr LC50 Gammarus lacustris: 0.6 mg/L</td>
<td></td>
</tr>
<tr>
<td>Methyl Ethyl Ketone</td>
<td>96 Hr LC50 Pimephales promelas: 3130 - 3320 mg/L [flow-through]; 48 Hr EC50 Daphnia magna: 5091 mg/L; 48 Hr EC50 Daphnia magna: 4025 - 8440 mg/L [static]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Benzene,1,3,5-trimethyl</td>
<td>96 Hr LC50 Pimephales promelas: 3.48 mg/L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ISOPROPANOL</td>
<td>96 Hr LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 11130 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: &gt;1400000 µg/L; 48 Hr EC50 Daphnia magna: 13299 mg/L; 96 Hr EC50 Desmodesmus subspicatus: &gt;1000 mg/L; 72 Hr EC50 Desmodesmus subspicatus: &gt;1000 mg/L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-ETHYL BENZENE</td>
<td>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 Pimephales promelas: 9.6 mg/L [static]</td>
<td>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: 4.38 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]</td>
<td></td>
</tr>
<tr>
<td>Cumene</td>
<td>96 Hr LC50 Pimephales promelas: 6.04 - 6.61 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 4.8 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 2.7 mg/L [semi-static]; 96 Hr LC50 Poecilia reticulata: 5.1 mg/L [semi-static]</td>
<td>48 Hr EC50 Daphnia magna: 0.6 mg/L; 48 Hr EC50 Daphnia magna: 7.9 - 14.1 mg/L [Static];</td>
<td>72 Hr EC50 Pseudokirchneriella subcapitata: 2.6 mg/L</td>
</tr>
</tbody>
</table>

### Section 13: Disposal Considerations

Minimize the generation of waste whenever possible. Dispose by license waste disposal contractor. Comply with local, regional, and federal disposal regulations and legislation.

### Section 14: Transport Information
Section 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:

- **Cumene** 98-82-8 0.1 to 1.0 %
- **2-ETHYL BENZENE** 100-41-4 0.1 to 1.0 %
- **4-METHYL-2-PENTANONE** 108-10-1 1 to 5 %
- **Titanium Dioxide Colorant** 13463-67-7 10 to 20 %

HAZARDOUS AIR POLLUTANTS

- **Cumene** 98-82-8
- **2-ETHYL BENZENE** 100-41-4
- **Mixed Xylenes** 1330-20-7
- **4-METHYL-2-PENTANONE** 108-10-1

HAZARDOUS SUBSTANCE/CHEMICALS/POLLUTANTS

- None

MASSACHUSETTS RIGHT TO KNOW

- **Cumene** 98-82-8 0.1 to 1.0 %
- **2-ETHYL BENZENE** 100-41-4 0.1 to 1.0 %
- **ISOPROPA NOL** 67-63-0 1 to 5 %
- **Benzene,1,3,5-trimethyl** 108-67-8 1 to 5 %
- **Methyl Ethyl Ketone** 78-93-3 1 to 5 %
- **Mixed Xylenes** 1330-20-7 1 to 5 %
- **1,2,4-TRIMETHYL BENZENE** 95-63-6 * 1 to 5 %
- **4-METHYL-2-PENTANONE** 108-10-1 1 to 5 %
- **Talc (hydrous magnesium silicate)** 14807-96-6 5 to 10 %
- **Kaolin** 1332-58-7 10 to 20 %
- **Dimethyl Carbonate** 616-38-6 10 to 20 %
- **Titanium Dioxide Colorant** 13463-67-7 10 to 20 %

NEW JERSEY RIGHT TO KNOW

- **Cumene** 98-82-8 0.1 to 1.0 %
- **2-ETHYL BENZENE** 100-41-4 0.1 to 1.0 %
- **ISOPROPA NOL** 67-63-0 1 to 5 %
- **Methyl Ethyl Ketone** 78-93-3 1 to 5 %
- **Mixed Xylenes** 1330-20-7 1 to 5 %
- **1,2,4-TRIMETHYL BENZENE** 95-63-6 * 1 to 5 %
- **4-METHYL-2-PENTANONE** 108-10-1 1 to 5 %
- **Talc (hydrous magnesium silicate)** 14807-96-6 5 to 10 %
- **Kaolin** 1332-58-7 10 to 20 %
- **Dimethyl Carbonate** 616-38-6 10 to 20 %
- **Titanium Dioxide Colorant** 13463-67-7 10 to 20 %

PENNSYLVANIA RIGHT TO KNOW

- **Cumene** 98-82-8 0.1 to 1.0 %
- **2-ETHYL BENZENE** 100-41-4 0.1 to 1.0 %
- **ISOPROPA NOL** 67-63-0 1 to 5 %
- **Methyl Ethyl Ketone** 78-93-3 1 to 5 %
- **Mixed Xylenes** 1330-20-7 1 to 5 %
- **1,2,4-TRIMETHYL BENZENE** 95-63-6 * 1 to 5 %
- **4-METHYL-2-PENTANONE** 108-10-1 1 to 5 %
- **Talc (hydrous magnesium silicate)** 14807-96-6 5 to 10 %
<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>

### Section 16: Other Information

HMIS and NAFTA rating are on a 0 to 4 rating scale with 0 minimal hazard, and 4 represent significant danger or hazard.

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

 Special
```

The information provided herein was believed by Induron Protective Coating to be accurate and reliable, but the user is responsible to comply with all laws and procedures whether included or not. Induron makes no warranty expressed or implied concerning the accuracy of the information except the product will comply with Induron specifications.

Reviewer Revision

Date Prepared: 9/28/2016
Section 1: Manufacturer's Identification

Product Name: PC II ACTIVATOR
Product Code: Q4-1011
Trade Name: PC II ACTIVATOR
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)
- Skin corrosive 1C Destruction of dermal tissue: Exposure < 4 hours
  Observation < 14 days, visible necrosis in at least one animal
- Eye corrosive 1 Serious eye damage: Irreversible damage 21 days after exposure,
  Draize score: Corneal opacity >= 3, Iritis > 1.5
- Skin sensitizer 1 Skin sensitizer

GHS Hazards
- H226 Flammable liquid and vapour.
- H314 Causes severe skin burns and eye damage
- H317 May cause an allergic skin reaction
- H318 Causes serious eye damage

GHS Precautions
- 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.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash equipment and contaminated skin thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P310 Immediately call a POISON CENTER or doctor/physician
- P321 Wash contaminated skin, follow Physician's instructions for treatment.
- P363 Wash contaminated clothing before reuse
- P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- 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+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
- 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
Section 3: Hazards Identification

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS number</th>
<th>Weight Concentration %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fatty Acids, C18-unsaturated, dimers with polyethylenepolyamines</td>
<td>68410-23-1</td>
<td>50.00% - 60.00%</td>
</tr>
<tr>
<td>Benzyl Alcohol</td>
<td>100-51-6</td>
<td>20.00% - 30.00%</td>
</tr>
<tr>
<td>ISOBUTANOL</td>
<td>78-83-1</td>
<td>10.00% - 20.00%</td>
</tr>
<tr>
<td>Triethylenetetraamine</td>
<td>112-24-3</td>
<td>1.00% - 5.00%</td>
</tr>
</tbody>
</table>

(1) Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5

Section 4: First Aid Measures

Remove to fresh air, seek medical attention. Immediately flush eyes with water for at least 15 min. Seek medical attention. Immediately washes with soap and water. Remove contaminated clothing and launder before reuse. Destroy contaminated shoes. Seek medical attention. Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to unconscious personnel. Seek immediate medical attention. Allergies, eczema, or skin conditions can be aggravated by this product.

Section 5: Fire Fighting Measure:

Flash Point: 28 C (82 F)
LEL: 1.00  UEL: 13.00

Carbon dioxide, foam, dry chemical, water spray.

Decomposition and combustion products may be toxic

Self contained breathing apparatus

Section 6: Accidental Release Measures

Absorb onto sand or other absorbent material. Shovel into closed container for disposal. Flush contaminated area with water.

Section 7: Handling and Storage

Causes severe eye irritation and may cause eye burns. Can cause skin irritation. May be harmful if swallowed. Avoid vapor or mist. Avoid skin contact. Wash thoroughly after handling. Overexposure can have effects on nervous system. Store in closed containers.

Section 8: Exposure Controls/ Personal Protection
### Chemical Name / CAS No.

<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>Fatty Acids, C18-unsaturated, dimers with polyethylenepolyamines 68410-23-1</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
<tr>
<td>Benzyl Alcohol 100-51-6</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
<tr>
<td>ISOBUTANOL 78-83-1</td>
<td>100 ppm TWA; 300 mg/m3 TWA</td>
<td>50 ppm TWA</td>
<td>NIOSH: 50 ppm TWA; 150 mg/m3 TWA</td>
</tr>
<tr>
<td>Triethylenetetraamine 112-24-3</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
</tbody>
</table>

- Good general mechanical ventilation and local exhaust.
- Assure personnel safety training.
- Wear protective equipment to prevent exposure and personal contact.
- Wear impervious gloves
- Use NIOSH approved vapor respirator if required.
- Wear splash proof goggles.
- Wash cloths before reuse. Dispose of contaminated shoes.

### Section 9: Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Viscosity</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Appearance</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Vapor Pressure</strong></td>
<td>3.1 mmHg @ 20°C</td>
</tr>
<tr>
<td><strong>Vapor Density</strong></td>
<td>3.3</td>
</tr>
<tr>
<td><strong>DENSITY</strong></td>
<td>8.09</td>
</tr>
<tr>
<td><strong>Freezing point</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Boiling range</strong></td>
<td>108°C</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Explosive Limits</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Autoignition temperature</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Coating VOC Lb/Gal</strong></td>
<td>1.30</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Odor threshold</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Melting point</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Solubility</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>82 F, 28 C</td>
</tr>
<tr>
<td><strong>Flammability</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Partition coefficient (n- octanol/water)</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Section 10: Stability and Reactivity

- These materials are stable. Under normal conditions of storage and use hazardous reactions or polymerization will not occur.
- Avoid all source of ignitions, sparks or flames. Do not allow vapor to accumulate in low lying areas.

**STABLE**

- Do not expose to strong oxidizing agents or strong acids.
- Under normal use, no hazardous decomposition products are produced.
- Hazardous polymerization will not occur.

### Section 11: Toxicological Information

**Mixture Toxicity**

- Oral Toxicity LD50: 2,547 mg/kg
- Dermal Toxicity LD50: 3,017 mg/kg
- Inhalation Toxicity LC50: 27 mg/L

**Routes of Entry**
Exposure to this material may affect the following organs:

- Eyes
- Central Nervous System
- Skin
- Respiratory System

### Effects of Overexposure

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Description</th>
<th>% Weight</th>
<th>Carcinogen Rating</th>
</tr>
</thead>
</table>

#### Section 12: Ecological Information

None available.

**Component Ecotoxicity**

- **Benzyl Alcohol**
  - 96 Hr LC50 Pimephales promelas: 460 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 10 mg/L [static]
  - 48 Hr EC50 water flea: 23 mg/L

- **ISOBUTANOL**
  - 96 Hr LC50 Pimephales promelas: 1370 - 1670 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 375 mg/L [static] (fry); 96 Hr LC50 Lepomis macrochirus: 1480 - 1730 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 1120 - 1520 mg/L [flow-through]
  - 48 Hr EC50 Daphnia magna: 1300 mg/L; 48 Hr EC50 Daphnia magna: 1070 - 1933 mg/L [Static]

- **Triethylenetetraamine**
  - 96 Hr LC50 Poecilia reticulata: 570 mg/L [semi-static]; 96 Hr LC50 Pimephales promelas: 495 mg/L
  - 48 Hr EC50 Daphnia magna: 31.1 mg/L
  - 72 Hr EC50 Desmodesmus subspicatus: 2.5 mg/L; 72 Hr EC50 Pseudokirchneriella subcapitata: 20 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: 3.7 mg/L

#### Section 13: Disposal Considerations

Dispose in accordance with federal, state, and local regulations.

#### 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>

#### Section 15: Regulatory Information

- **MASSACHUSETTS RIGHT TO KNOW**
  - 112-24-3 Triethylenetetraamine 1 to 5 %
  - 78-83-1 ISOBUTANOL 10 to 20 %
  - 100-51-6 Benzyl Alcohol 20 to 30 %

- **NEW JERSEY RIGHT TO KNOW**
  - 112-24-3 Triethylenetetraamine 1 to 5 %
  - 78-83-1 ISOBUTANOL 10 to 20 %

- **PENNSYLVANIA RIGHT TO KNOW**
  - 112-24-3 Triethylenetetraamine 1 to 5 %
  - 78-83-1 ISOBUTANOL 10 to 20 %
  - 100-51-6 Benzyl Alcohol 20 to 30 %
**CHEMICAL LIST FOR SARA 311/312**

- **78-83-1 ISOBUTANOL**
- **100-51-6 Benzyl Alcohol**

### Country | Regulation | All Components Listed
--- | --- | ---

#### EU Risk Phrases

**Safety Phrase**

- None

### Section 16: Other Information

HMIS and NAFTA rating are on a 0 to 4 rating scale with 0 minimal hazard, and 4 represent significant danger or hazard.

**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>*</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2</td>
<td></td>
<td>H</td>
</tr>
</tbody>
</table>

**National Fire Protection Association (NFPA)**

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

**HMIS & NFPA Hazard Rating**

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

The information provided herein was believed by Induron Protective Coating to be accurate and reliable, but the user is responsible to comply with all

Date Prepared: 9/28/2016

Reviewer Revision