SAFETY DATA SHEET

Section 1: Manufacturer’s Identification

Product Name: PERMA-CLEAN II WTB, COMPONENT A  Product Code: A4-1112W
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>Property</th>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable liquid</td>
<td>2</td>
<td>Flash point &lt; 23°C and initial boiling point &gt; 35°C (95°F)</td>
</tr>
<tr>
<td>Dermal Toxicity</td>
<td>Acute 4</td>
<td>Dermal toxicity: &gt;1000mg/kg to &lt;=2000mg/kg</td>
</tr>
<tr>
<td>Skin corrosive</td>
<td>2</td>
<td>Reversible adverse effects in dermal tissue, Draize score: &gt;= 2.3 &lt; 4.0 or persistent inflammation</td>
</tr>
<tr>
<td>Eye corrosive</td>
<td>2A</td>
<td>Eye irritant: Subcategory 2A, Reversible in 21 days</td>
</tr>
<tr>
<td>Skin sensitizer</td>
<td>1</td>
<td>Skin sensitizer</td>
</tr>
<tr>
<td>Mutagen</td>
<td>1B</td>
<td>Known to produce heritable mutations in human germ cells Subcategory 1B, Positive results: In vivo heritable germ cell tests in mammals, Human germ cell tests, In vivo somatic mutagenicity tests, combined with some evidence of germ cell mutagenicity</td>
</tr>
<tr>
<td>Carcinogen</td>
<td>1A</td>
<td>Known Human Carcinogen Based on human evidence</td>
</tr>
<tr>
<td>Reproductive toxin</td>
<td>1B</td>
<td>Presumed, Based on experimental animals</td>
</tr>
</tbody>
</table>

GHS Hazards

- H225 Highly flammable
- H312 Harmful in contact with skin
- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation
- H340 May cause genetic defects
- H350 May cause cancer
- H360 May damage fertility or the unborn child

GHS Precautions

- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P210 Keep away from heat/sparks/open flames/hot surfaces - No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash equipment and contaminated skin thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P281 Use personal protective equipment as required
- P312 Call a POISON CENTER or doctor/physician if you feel unwell
- P321 Wash contaminated skin, follow Physician's instructions for treatment.
- P322 Specific measures Remove contaminated clothing and protective equipment.
- P362 Take off contaminated clothing and wash before reuse
P363 Wash contaminated clothing before reuse
P302+P352 IF ON SKIN: Wash with soap and water
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
P305+P351+P338 Rinse skin with water/shower
P308+P313 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P332+P313 If skin irritation occurs: Get medical advice/attention
P333+P313 If skin irritation or a rash 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
P403+P235 Store in a well ventilated place. Keep cool
P501 Dispose of contents/container in accordance to appropriate regulations and laws.

Signal Word: Danger

This product can be a skin and eye sensitizer. The material should washed from skin or flushed from eyes immediately. Contaminated clothing should be removed. Wear proper protective equipment. Any other acute toxicological information can be found in section 11. Approximately 2% of the population can develop skin sensitivity with increasing inflation 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>5.00% - 10.00%</td>
</tr>
<tr>
<td>4-METHYL-2-PENTANONE</td>
<td>108-10-1</td>
<td>5.00% - 10.00%</td>
</tr>
<tr>
<td>Mixed Xylenes</td>
<td>1330-20-7</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>Benzene,1,3,5-trimethyl</td>
<td>108-67-8</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>2-ETHYL BENZENE</td>
<td>100-41-4</td>
<td>1.00% - 5.00%</td>
</tr>
<tr>
<td>Cumene</td>
<td>98-82-8</td>
<td>0.10% - 1.00%</td>
</tr>
<tr>
<td>Microcrystalline silica 98.5-99.0%</td>
<td>14808-60-7</td>
<td>0.10% - 1.00%</td>
</tr>
<tr>
<td>Naptha(Pet), light arom.</td>
<td>64742-95-6</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 inhaled or ingested.

Section 5: Fire Fighting Measures
Flash Point: 15 C (59 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 form 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>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>
</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**

**Appearance:** Red

**Odor:** N/A

**Vapor Pressure:** 1.5 mmHg

**Odor threshold:** N/A

**Vapor Density:** 4.1

**pH:** N/A

**DENSITY** 11.31

**Melting point:** Calculated

**Freezing point:** N/A

**Solubility:** N/A

**Boiling range:** 91°C

**Flash point:** 59 F, 15 C

**Evaporation rate:** N/A

**Flammability:** N/A

**Explosive Limits:** N/A

**Partition coefficient (n-octanol/water):**

**Autoignition temperature:** N/A

**Decomposition temperature:** N/A

**Viscosity:** N/A

**Lb VOC/Gal less water and exempt**

**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..

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| 4-METHYL-2-PENTANONE 108-10-1 | 100 ppm TWA; 410 mg/m³ TWA | 75 ppm STEL 20 ppm TWA | NIOSH: 50 ppm TWA; 205 mg/m³ TWA 75 ppm STEL; 300 mg/m³ STEL |
| Mixed Xylenes 1330-20-7 | 100 ppm TWA; 435 mg/m³ TWA | 150 ppm STEL 100 ppm TWA | Not Established |
| *1,2,4-TRIMETHYL BENZENE 95-63-6* | Not Established | Not Established | NIOSH: 25 ppm TWA; 125 mg/m³ TWA |
| Benzene,1,3,5-trimethyl 108-67-8 | Not Established | Not Established | NIOSH: 25 ppm TWA; 125 mg/m³ TWA |
| Benzene,1,2,5-trimethyl 526-73-8 | Not Established | Not Established | NIOSH: 25 ppm TWA; 125 mg/m³ TWA |
| 2-ETHYL BENZENE 100-41-4 | 100 ppm TWA; 435 mg/m³ TWA | 20 ppm TWA | NIOSH: 100 ppm TWA; 435 mg/m³ TWA 125 ppm STEL; 545 mg/m³ STEL |
| Cumene 98-82-8 | 50 ppm TWA; 245 mg/m³ TWA | 50 ppm TWA | NIOSH: 50 ppm TWA; 245 mg/m³ TWA |
| Microcrystalline silica 98.5-99.0% 14808-60-7 | .05 mg/m³ TWA | 0.025 mg/m³ TWA (respirable fraction) | NIOSH: 0.05 mg/m³ TWA (respirable dust) |
| Naptha(Pet), light arom. 64742-95-6 | Not Established | Not Established | Not Established |
STABLE
Do not expose to strong oxidizing agents, strong acids, or alapahic amines.
Under normal use, no hazardous decomposition products are produced.
Hazardous polymerization will not occur.

Section 11: Toxicological Information

Mixture Toxicity
Dermal Toxicity LD50: 1,908mg/kg
Inhalation Toxicity LC50: 80mg/L

Routes of Entry:
- Inhalation
- Skin Contact
- Eye Contact
- Ingestion

Exposure to this material may affect the following organs:
- Blood
- Eyes
- Kidneys
- Liver
- Lungs
- Central Nervous System
- Skin
- 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 5%</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>5 to 10%</td>
<td>4-METHYL-2-PENTANONE: IARC: Possible human carcinogen OSHA: listed</td>
</tr>
<tr>
<td>64742-95-6</td>
<td>Naptha(Pet), light arom.</td>
<td>.1 to 1.0%</td>
<td>Naptha(Pet), light arom.: EU REACH: Present (P)</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>14808-60-7</td>
<td>Microcrystalline silica 98.5-99.0%</td>
<td>.1 to 1.0%</td>
<td>Microcrystalline silica 98.5-99.0%: NIOSH: potential occupational carcinogen IARC: 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
- 4-METHYL-2-PENTANONE
  96 Hr LC50 Pimephales promelas: 496 - 514 mg/L [flow-through]
  48 Hr EC50 Daphnia magna: 170 mg/L
  96 Hr EC50 Pseudokirchneriella subcapitata: 400 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

* 1,2,4-TRIMETHYL BENZENE 96 Hr LC50 Pimephales promelas: 7.19 - 8.28 mg/L [flow-through]

48 Hr EC50 Daphnia magna: 6.14 mg/L

Benzene, 1,3,5-trimethyl 96 Hr LC50 Pimephales promelas: 3.48 mg/L

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

Cumene 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]; 48 Hr EC50 Daphnia magna: 0.6 mg/L; 48 Hr EC50 Daphnia magna: 7.9 - 14.1 mg/L [static]; 72 Hr EC50 Pseudokirchneriella subcapitata: 2.6 mg/L

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

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**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**

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

**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:

- 14808-60-7  Microcrystalline silica 98.5-99.0% 0.1 to 1.0 %
- 98-82-8  Cumene 0.1 to 1.0 %
- 100-41-4  2-ETHYL BENZENE 1 to 5 %
- 108-10-1  4-METHYL-2-PENTANONE 5 to 10 %
- 13463-67-7  Titanium Dioxide Colorant 10 to 20 %

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SDS for: A4-1112W
Page 6 of 8
Printed: 9/29/2016 at 12:57:50PM
HAZARDOUS AIR POLLUTANTS
98-82-8  Cumene
100-41-4  2-ETHYL BENZENE
1330-20-7  Mixed Xylenes
108-10-1  4-METHYL-2-PENTANONE

HAZARDOUS SUBSTANCE/CHEMICALS/POLLUTANTS
- None

MASSACHUSETTS RIGHT TO KNOW
14808-60-7  Microcrystalline silica 98.5-99.0%  0.1 to 1.0 %
98-82-8  Cumene  0.1 to 1.0 %
100-41-4  2-ETHYL BENZENE  1 to 5 %
108-67-8  Benzene,1,3,5-trimethyl  1 to 5 %
95-63-6  * 1,2,4-TRIMETHYL BENZENE  1 to 5 %
1330-20-7  Mixed Xylenes  1 to 5 %
108-10-1  4-METHYL-2-PENTANONE  5 to 10 %
1332-58-7  Kaolin  5 to 10 %
616-38-6  Dimethyl Carbonate  10 to 20 %
13463-67-7  Titanium Dioxide Colorant  10 to 20 %

NEW JERSEY RIGHT TO KNOW
14808-60-7  Microcrystalline silica 98.5-99.0%  0.1 to 1.0 %
98-82-8  Cumene  0.1 to 1.0 %
100-41-4  2-ETHYL BENZENE  1 to 5 %
95-63-6  * 1,2,4-TRIMETHYL BENZENE  1 to 5 %
1330-20-7  Mixed Xylenes  1 to 5 %
108-10-1  4-METHYL-2-PENTANONE  5 to 10 %
1332-58-7  Kaolin  5 to 10 %
616-38-6  Dimethyl Carbonate  10 to 20 %
13463-67-7  Titanium Dioxide Colorant  10 to 20 %

PENNSYLVANIA RIGHT TO KNOW
14808-60-7  Microcrystalline silica 98.5-99.0%  0.1 to 1.0 %
98-82-8  Cumene  0.1 to 1.0 %
100-41-4  2-ETHYL BENZENE  1 to 5 %
95-63-6  * 1,2,4-TRIMETHYL BENZENE  1 to 5 %
1330-20-7  Mixed Xylenes  1 to 5 %
108-10-1  4-METHYL-2-PENTANONE  5 to 10 %
1332-58-7  Kaolin  5 to 10 %
616-38-6  Dimethyl Carbonate  10 to 20 %
13463-67-7  Titanium Dioxide Colorant  10 to 20 %

- None

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

CHEMICAL LIST FOR SARA 311/312
14808-60-7  Microcrystalline silica 98.5-99.0%
98-82-8  Cumene
526-73-8  Benzene,1,2,5-trimethyl
1330-20-7  Mixed Xylenes

CHEMICAL LIST FOR SARA 313
100-41-4  2-ETHYL BENZENE
95-63-6  * 1,2,4-TRIMETHYL BENZENE
## 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>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>2</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

Legend:
- Special Instability
- G = Personal Protection

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.

Date Prepared: 9/29/2016

Reviewer Revision
Section 1: Manufacturer's Identification

Product Name: PERMA-CLEAN II MTB, COMPONENT A
Product Code: A4-1113M
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. 2
  Oral>5+<=50mg/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
- Mutagen: 1B
  Known to produce heritable mutations in human germ cells
  Subcategory 1B, Positive results: In vivo heritable germ cell tests in mammals, Human germ cell tests, In vivo somatic mutagenicity tests, combined with some evidence of germ cell mutagenicity
- Carcinogen: 1A
  Known Human Carcinogen Based on human evidence
- Reproductive toxin: 1B
  Presumed, Based on experimental animals

GHS Hazards

- H225: Highly flammable
- H300: Fatal if swallowed
- H311: Toxic in contact with skin
- H315: Causes skin irritation
- H317: May cause an allergic skin reaction
- H319: Causes serious eye irritation
- H340: May cause genetic defects
- H350: May cause cancer
- H360: May damage fertility or the unborn child

GHS Precautions

- P201: Obtain special instructions before use
- P202: Do not handle until all safety precautions have been read and understood
- P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking.
- P233: Keep container tightly closed.
- P240: Ground/bond container and receiving equipment.
- P241: Use explosion-proof electrical equipment.
- P242: Use only non-sparking tools.
- P243: Take precautionary measures against static discharge.
- P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264: Wash equipment and contaminated skin thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product
- P272: Contaminated work clothing should not be allowed out of the workplace.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P281: Use personal protective equipment as required
- P312: Call a POISON CENTER or doctor/physician if you feel unwell
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 toxicological 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>Kaolin</td>
<td>1332-58-7</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>4-METHYL-2-PENTANONE</td>
<td>108-10-1</td>
<td>5.00% - 10.00%</td>
</tr>
<tr>
<td>Mixed Xylenes</td>
<td>1330-20-7</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>Benzene,1,3,5-trimethyl</td>
<td>108-67-8</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>2-ETHYL BENZENE</td>
<td>100-41-4</td>
<td>1.00% - 5.00%</td>
</tr>
<tr>
<td>Cumene</td>
<td>98-82-8</td>
<td>0.10% - 1.00%</td>
</tr>
<tr>
<td>Microcrystalline silica 98.5-99.0%</td>
<td>14808-60-7</td>
<td>0.10% - 1.00%</td>
</tr>
<tr>
<td>Naptha(Pet), light arom.</td>
<td>64742-95-6</td>
<td>0.10% - 1.00%</td>
</tr>
</tbody>
</table>
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 inhaled or ingested.

### Section 5: Fire Fighting Measures

**Flash Point:** 15 C (59 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 man include the following materials: Carbon Oxides.

Fire fighters should wear appropriate protective equipment and wel-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 form 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 unlabled 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</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>Dimethyl Carbonate</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
<tr>
<td>616-38-6</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SDS for: A4-1113M

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Printed: 9/29/2016 at 12:58:48PM
<table>
<thead>
<tr>
<th>Compound</th>
<th>TWA, STEL Limitations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kaolin</td>
<td>15 mg/m³ TWA (total dust); 2 mg/m³ TWA (respirable matter containing no asbestos and &lt;1% crystalline silica, respirable fraction)</td>
</tr>
<tr>
<td>Diglycidyl Ether of Bisphenol A</td>
<td>Not Established</td>
</tr>
<tr>
<td>2-METHYL-2-PENTANONE</td>
<td>100 ppm TWA; 410 mg/m³ TWA; 75 ppm STEL; 20 ppm TWA; NIOSH: 50 ppm TWA; 205 mg/m³ TWA</td>
</tr>
<tr>
<td>Mixed Xylenes</td>
<td>100 ppm TWA; 435 mg/m³ TWA; 150 ppm STEL; 100 ppm TWA; NIOSH: 50 ppm TWA; 205 mg/m³ TWA</td>
</tr>
<tr>
<td>* 1,2,4-TRIMETHYL BENZENE</td>
<td>Not Established</td>
</tr>
<tr>
<td>Benzene, 1,3,5-trimethyl</td>
<td>Not Established</td>
</tr>
<tr>
<td>Benzene, 1,2,5-trimethyl</td>
<td>Not Established</td>
</tr>
<tr>
<td>2-ETHYL BENZENE</td>
<td>100 ppm TWA; 435 mg/m³ TWA; 20 ppm TWA; NIOSH: 100 ppm TWA; 435 mg/m³ TWA; 545 mg/m³ TWA</td>
</tr>
<tr>
<td>Cumene</td>
<td>50 ppm TWA; 245 mg/m³ TWA; 50 ppm TWA; NIOSH: 50 ppm TWA; 245 mg/m³ TWA</td>
</tr>
<tr>
<td>Microcrystalline silica</td>
<td>0.05 mg/m³ TWA; 0.025 mg/m³ TWA (respirable fraction); NIOSH: 0.05 mg/m³ TWA (respirable dust)</td>
</tr>
<tr>
<td>Naptha(Pet), light arom.</td>
<td>Not Established</td>
</tr>
</tbody>
</table>

*Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to meet exposure to airborne contaminates 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>Decomposition temperature</td>
<td>N/A</td>
</tr>
<tr>
<td>Coating VOC Lb/Gal</td>
<td>2.61</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>59 F, 15 C</td>
</tr>
<tr>
<td>Flammability</td>
<td>N/A</td>
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<tr>
<td>Viscosity</td>
<td>N/A</td>
</tr>
<tr>
<td>Appearance</td>
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<tr>
<td>Vapor Pressure</td>
<td>1.5 mmHg</td>
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<tr>
<td>Vapor Density</td>
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<tr>
<td>DENSITY</td>
<td>11.08</td>
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<tr>
<td>Freezing point</td>
<td>N/A</td>
</tr>
<tr>
<td>Boiling range</td>
<td>91°C</td>
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<tr>
<td>Evaporation rate</td>
<td>N/A</td>
</tr>
<tr>
<td>Explosive Limits</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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**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: 43mg/kg
- Dermal Toxicity LD50: 538mg/kg
- Inhalation Toxicity LC50: 79mg/L

**Routes of Entry:**

- Inhalation
- Skin Contact
- Eye Contact
- Ingestion

Exposure to this material may affect the following organs:

- Blood
- Eyes
- Kidneys
- Liver
- Lungs
- Central Nervous System
- Skin
- 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 5%</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>5 to 10%</td>
<td>4-METHYL-2-PENTANONE: IARC: Possible human carcinogen OSHA: listed</td>
</tr>
<tr>
<td>64742-95-6</td>
<td>Naptha(Pet), light arom.</td>
<td>.1 to 1.0%</td>
<td>Naptha(Pet), light arom.: EU REACH: Present (P)</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>14808-60-7</td>
<td>Microcrystalline silica 98.5-99.0%</td>
<td>.1 to 1.0%</td>
<td>Microcrystalline silica 98.5-99.0%: NIOSH: potential occupational carcinogen IARC: 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

4-METHYL-2-PENTANONE  
96 Hr LC50 Pimephales promelas: 496 - 514 mg/L [flow-through]
48 Hr EC50 Daphnia magna: 170 mg/L
96 Hr EC50 Pseudokirchneriella subcapitata: 400 mg/L

Mixed Xylenes  
96 Hr LC50 Pimephales promelas: 13.4 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 13.5 - 17.3 mg/L; 96 Hr LC50 Lepomis macrochirus: 13.1 - 16.5 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 7.711 - 9.591 mg/L [static]; 96 Hr LC50 Pimephales promelas: 23.53 - 29.97 mg/L [static]; 96 Hr LC50 Cyprinus carpio: >780 mg/L [semi-static]; 96 Hr LC50 Cyprinus carpio: >780 mg/L; 96 Hr LC50 Poecilia reticulata: 30.26 - 40.75 mg/L [static]
48 Hr EC50 water flea: 3.82 mg/L; 48 Hr LC50 Gammarus lacustris: 0.6 mg/L

* 1,2,4-TRIMETHYL BENZENE  
96 Hr LC50 Pimephales promelas: 7.19 - 8.28 mg/L [flow-through]
48 Hr EC50 Daphnia magna: 6.14 mg/L

Benzene, 1,3,5-trimethyl  
96 Hr LC50 Pimephales promelas: 3.48 mg/L

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

Cumene  
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]
48 Hr EC50 Daphnia magna: 0.6 mg/L; 48 Hr EC50 Daphnia magna: 7.9 - 14.1 mg/L [Static]
72 Hr EC50 Pseudokirchneriella subcapitata: 2.6 mg/L

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

Section 13: Disposal Considerations

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

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

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:

14808-60-7 Microcrystalline silica 98.5-99.0% 0.1 to 1.0 %
98-82-8 Cumene 0.1 to 1.0 %
100-41-4 2-ETHYL BENZENE 1 to 5 %
108-10-1 4-METHYL-2-PENTANONE 5 to 10 %
13463-67-7 Titanium Dioxide Colorant 10 to 20 %

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

HAZARDOUS SUBSTANCE/CHEMICALS/POLLUTANTS
- None

MASSACHUSETTS RIGHT TO KNOW
14808-60-7 Microcrystalline silica 98.5-99.0% 0.1 to 1.0 %
98-82-8 Cumene 0.1 to 1.0 %
100-41-4 2-ETHYL BENZENE 1 to 5 %
108-67-8 Benzene,1,3,5-trimethyl 1 to 5 %
95-63-6 * 1,2,4-TRIMETHYL BENZENE 1 to 5 %
1330-20-7 Mixed Xylenes 1 to 5 %
108-10-1 4-METHYL-2-PENTANONE 5 to 10 %
1332-58-7 Kaolin 10 to 20 %
616-38-6 Dimethyl Carbonate 10 to 20 %
13463-67-7 Titanium Dioxide Colorant 10 to 20 %

NEW JERSEY RIGHT TO KNOW
14808-60-7 Microcrystalline silica 98.5-99.0% 0.1 to 1.0 %
98-82-8 Cumene 0.1 to 1.0 %
100-41-4 2-ETHYL BENZENE 1 to 5 %
95-63-6 * 1,2,4-TRIMETHYL BENZENE 1 to 5 %
1330-20-7 Mixed Xylenes 1 to 5 %
108-10-1 4-METHYL-2-PENTANONE 5 to 10 %
1332-58-7 Kaolin 10 to 20 %
616-38-6 Dimethyl Carbonate 10 to 20 %
13463-67-7 Titanium Dioxide Colorant 10 to 20 %

PENNSYLVANIA RIGHT TO KNOW
14808-60-7 Microcrystalline silica 98.5-99.0% 0.1 to 1.0 %
98-82-8 Cumene 0.1 to 1.0 %
100-41-4 2-ETHYL BENZENE 1 to 5 %
95-63-6 * 1,2,4-TRIMETHYL BENZENE 1 to 5 %
1330-20-7 Mixed Xylenes 1 to 5 %
108-10-1 4-METHYL-2-PENTANONE 5 to 10 %
1332-58-7 Kaolin 10 to 20 %
616-38-6 Dimethyl Carbonate 10 to 20 %
13463-67-7 Titanium Dioxide Colorant 10 to 20 %

- None

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

CHEMICAL LIST FOR SARA 311/312
14808-60-7  Microcrystalline silica 98.5-99.0%
98-82-8  Cumene
526-73-8  Benzene,1,2,5-trimethyl
1330-20-7  Mixed Xylenes

CHEMICAL LIST FOR SARA 313
100-41-4  2-ETHYL BENZENE
95-63-6  * 1,2,4-TRIMETHYL BENZENE
1330-20-7  Mixed Xylenes
108-10-1  4-METHYL-2-PENTANONE

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)  National Fire Protection Association (NFPA)

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
<th>PERSONAL PROTECTION</th>
<th>Flammability</th>
<th>Health</th>
<th>Instability</th>
<th>Special</th>
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<tr>
<td>* 2</td>
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<td>0</td>
<td>G</td>
<td>2</td>
<td>3</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

HMIS & NFPA Hazard Rating
Legend
* = 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 laws and procedures whether included or not. Induron makes no warranty expressed of implied concerning the accuracy of the information except the product will comply with Induron specifications.

Date Prepared: 9/29/2016
Section 1: Manufacturer's Identification

Product Name: PERMA-CLEAN II CTB, COMPONENT A
Product Code: A4-1114C
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>2</td>
<td>Flash point &lt; 23°C and initial boiling point &gt; 35°C (95°F)</td>
</tr>
<tr>
<td>Oral Toxicity</td>
<td>Acute Tox. 2</td>
<td>Oral&gt;5&lt;=50mg/kg</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>2</td>
<td>Reversible adverse effects in dermal tissue, Draize score: &gt;= 2.3 &lt; 4.0 or persistent inflammation</td>
</tr>
<tr>
<td>Eye corrosive</td>
<td>2A</td>
<td>Eye irritant: Subcategory 2A, Reversible in 21 days</td>
</tr>
<tr>
<td>Skin sensitizer</td>
<td>1</td>
<td>Skin sensitizer</td>
</tr>
<tr>
<td>Mutagen</td>
<td>1B</td>
<td>Known to produce heritable mutations in human germ cells, Subcategory 1B, Positive results: In vivo heritable germ cell tests in mammals, Human germ cell tests, In vivo somatic mutagenicity tests, combined with some evidence of germ cell mutagenicity</td>
</tr>
<tr>
<td>Carcinogen</td>
<td>1A</td>
<td>Known Human Carcinogen Based on human evidence</td>
</tr>
<tr>
<td>Reproductive toxin</td>
<td>1B</td>
<td>Presumed, Based on experimental animals</td>
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</table>

GHS Hazards

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
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<tr>
<td>H225</td>
<td>Highly flammable</td>
</tr>
<tr>
<td>H300</td>
<td>Fatal if swallowed</td>
</tr>
<tr>
<td>H311</td>
<td>Toxic in contact with skin</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H340</td>
<td>May cause genetic defects</td>
</tr>
<tr>
<td>H350</td>
<td>May cause cancer</td>
</tr>
<tr>
<td>H360</td>
<td>May damage fertility or the unborn child</td>
</tr>
</tbody>
</table>

GHS Precautions

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P201</td>
<td>Obtain special instructions before use</td>
</tr>
<tr>
<td>P202</td>
<td>Do not handle until all safety precautions have been read and understood</td>
</tr>
<tr>
<td>P210</td>
<td>Keep away from heat/sparks/open flames/hot surfaces - No smoking.</td>
</tr>
<tr>
<td>P233</td>
<td>Keep container tightly closed.</td>
</tr>
<tr>
<td>P240</td>
<td>Ground/bond container and receiving equipment.</td>
</tr>
<tr>
<td>P241</td>
<td>Use explosion-proof electrical equipment.</td>
</tr>
<tr>
<td>P242</td>
<td>Use only non-sparking tools.</td>
</tr>
<tr>
<td>P243</td>
<td>Take precautionary measures against static discharge.</td>
</tr>
<tr>
<td>P261</td>
<td>Avoid breathing dust/fume/gas/mist/vapours/spray.</td>
</tr>
<tr>
<td>P264</td>
<td>Wash equipment and contaminated skin thoroughly after handling.</td>
</tr>
<tr>
<td>P270</td>
<td>Do not eat, drink or smoke when using this product.</td>
</tr>
<tr>
<td>P272</td>
<td>Contaminated work clothing should not be allowed out of the workplace.</td>
</tr>
<tr>
<td>P280</td>
<td>Wear protective gloves/protective clothing/eye protection/face protection.</td>
</tr>
<tr>
<td>P281</td>
<td>Use personal protective equipment as required</td>
</tr>
<tr>
<td>P312</td>
<td>Call a POISON CENTER or doctor/physician if you feel unwell</td>
</tr>
</tbody>
</table>
This product can be a skin and eye sensitizer. The material should washed from skin or flushed from eyes immediately. Contaminated clothing should be removed. Wear proper protective equipment. Any other acute toxicological 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>Kaolin</td>
<td>1332-58-7</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>Dimethyl Carbonate</td>
<td>616-38-6</td>
<td>10.00% - 20.00%</td>
</tr>
<tr>
<td>4-METHYL-2-PENTANONE</td>
<td>108-10-1</td>
<td>5.00% - 10.00%</td>
</tr>
<tr>
<td>Mixed Xylenes</td>
<td>1330-20-7</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>Benzene,1,3,5-trimethyl</td>
<td>108-67-8</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>2-ETHYL BENZENE</td>
<td>100-41-4</td>
<td>1.00% - 5.00%</td>
</tr>
<tr>
<td>Cumene</td>
<td>98-82-8</td>
<td>0.10% - 1.00%</td>
</tr>
<tr>
<td>Microcrystalline silica 98.5-99.0%</td>
<td>14808-60-7</td>
<td>0.10% - 1.00%</td>
</tr>
<tr>
<td>Naptha(Pet), light arom.</td>
<td>64742-95-6</td>
<td>0.10% - 1.00%</td>
</tr>
<tr>
<td>Naphtha, petroleum, hydrodesulfurized heavy</td>
<td>64742-82-1</td>
<td>0.10% - 1.00%</td>
</tr>
<tr>
<td>STODDARD SOLVENT</td>
<td>8052-41-3</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 clothes, 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 inhaled or ingested.

Section 5: Fire Fighting Measures
Flash Point: 15 C (59 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 man include the following materials: Carbon Oxides.
Fire fighters should wear appropriate protective equipment and wel-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 form 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 unlabled containers. Use appropriate containement.

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>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>
</tbody>
</table>

SDS for: A4-1114C
Printed: 9/29/2016 at 12:59:55PM
<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS No.</th>
<th>STEL</th>
<th>TWA</th>
<th>Ceiling (15 min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diglycidyl Ether of Bisphenol A</td>
<td>25068-38-6</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
<tr>
<td>Dimethyl Carbonate</td>
<td>616-38-6</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
<tr>
<td>4-METHYL-2-PENTANONE</td>
<td>108-10-1</td>
<td>100 ppm TWA; 410 mg/m³ TWA</td>
<td>75 ppm STEL; 20 ppm TWA</td>
<td>NIOSH: 50 ppm TWA; 205 mg/m³ TWA; 75 ppm STEL; 300 mg/m³ STEL</td>
</tr>
<tr>
<td>Mixed Xylenes</td>
<td>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>* 1,2,4-TRIMETHYL BENZENE</td>
<td>95-63-6</td>
<td>Not Established</td>
<td>Not Established</td>
<td>NIOSH: 25 ppm TWA; 125 mg/m³ TWA</td>
</tr>
<tr>
<td>Benzene, 1,3,5-trimethyl</td>
<td>108-67-8</td>
<td>Not Established</td>
<td>Not Established</td>
<td>NIOSH: 25 ppm TWA; 125 mg/m³ TWA</td>
</tr>
<tr>
<td>Benzene, 1,2,5-trimethyl</td>
<td>526-73-8</td>
<td>Not Established</td>
<td>Not Established</td>
<td>NIOSH: 25 ppm TWA; 125 mg/m³ TWA</td>
</tr>
<tr>
<td>2-ETHYL BENZENE</td>
<td>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>
<tr>
<td>Cumene</td>
<td>98-82-8</td>
<td>50 ppm TWA; 245 mg/m³ TWA</td>
<td>50 ppm TWA</td>
<td>NIOSH: 50 ppm TWA; 245 mg/m³ TWA</td>
</tr>
<tr>
<td>Microcrystalline silica 98.5-99.0%</td>
<td>14808-60-7</td>
<td>.05 mg/m³ TWA</td>
<td>0.025 mg/m³ TWA (respirable fraction)</td>
<td>NIOSH: 0.05 mg/m³ TWA (respirable dust)</td>
</tr>
<tr>
<td>Naphtha(Pet), light arom.</td>
<td>64742-95-6</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
<tr>
<td>Naphtha, petroleum, hydrodesulfurized heavy</td>
<td>64742-82-1</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
<tr>
<td>STODDARD SOLVENT</td>
<td>8052-41-3</td>
<td>500 ppm TWA; 2900 mg/m³ TWA</td>
<td>100 ppm TWA</td>
<td>NIOSH: 350 mg/m³ TWA; 1800 mg/m³ Ceiling (15 min)</td>
</tr>
</tbody>
</table>

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to meet exposure to airborne cotaminates 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>Viscosity</td>
<td>N/A</td>
</tr>
<tr>
<td>Appearance</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>1.4 mmHg</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>4.0</td>
</tr>
<tr>
<td>DENSITY</td>
<td>9.95</td>
</tr>
<tr>
<td>Freezing point</td>
<td>N/A</td>
</tr>
<tr>
<td>Coating VOC Lb/Gal</td>
<td>2.56</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>
</tbody>
</table>
**Boiling range:** 91°C

**Evaporation rate:** N/A

**Explosive Limits:** N/A

**Autoignition temperature:** N/A

**Flash point:** 59 F, 15 C

**Flammability:** N/A

**Partition coefficient (n-octanol/water):** N/A

**Decomposition temperature:** N/A

---

**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: 35mg/kg

Dermal Toxicity LD50: 439mg/kg

Inhalation Toxicity LC50: 70mg/L

**Routes of Entry:**

- Inhalation
- Skin Contact
- Eye Contact
- Ingestion

Exposure to this material may affect the following organs:

- Blood
- Eyes
- Kidneys
- Liver
- Lungs
- Central Nervous System
- Skin
- 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 5%</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>5 to 10%</td>
<td>4-METHYL-2-PENTANONE: IARC: Possible human carcinogen OSHA: listed</td>
</tr>
<tr>
<td>64742-95-6</td>
<td>Naphtha(Pet), light arom.</td>
<td>.1 to 1.0%</td>
<td>Naphtha(Pet), light arom.: EU REACH: Present (P)</td>
</tr>
<tr>
<td>64742-82-1</td>
<td>Naphtha, petroleum, hydrodesulfurized heavy</td>
<td>.1 to 1.0%</td>
<td>Naphtha, petroleum, hydrodesulfurized heavy: EU REACH: Present (P)</td>
</tr>
<tr>
<td>8052-41-3</td>
<td>STODDARD SOLVENT</td>
<td>.1 to 1.0%</td>
<td>STODDARD SOLVENT: EU REACH: Present (P)</td>
</tr>
</tbody>
</table>
Microcrystalline silica 98.5-99.0%: NIOSH: potential occupational carcinogen IARC: Human carcinogen OSHA: listed

Cumene: IARC: Possible human carcinogen OSHA: listed

Section 13: Ecological

No known significant effects or critical hazards.

Component Ecotoxicity

4-METHYL-2-PENTANONE
96 Hr LC50 Pimephales promelas: 496 - 514 mg/L [flow-through]
48 Hr EC50 Daphnia magna: 170 mg/L
96 Hr EC50 Pseudokirchneriella subcapitata: 400 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

* 1,2,4-TRIMETHYL BENZENE
96 Hr LC50 Pimephales promelas: 7.19 - 8.28 mg/L [flow-through]
48 Hr EC50 Daphnia magna: 6.14 mg/L

Benzene,1,3,5-trimethyl
96 Hr LC50 Pimephales promelas: 3.48 mg/L

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

Cumene
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]
48 Hr EC50 Daphnia magna: 0.6 mg/L; 48 Hr EC50 Daphnia magna: 7.9 - 14.1 mg/L [Static]
72 Hr EC50 Pseudokirchneriella subcapitata: 2.6 mg/L

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

Section 13: Disposal Considerations

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:

- 14808-60-7  Microcrystalline silica 98.5-99.0%  0.1 to 1.0 %
- 98-82-8  Cumene  0.1 to 1.0 %
- 100-41-4  2-ETHYL BENZENE  1 to 5 %
- 108-10-1  4-METHYL-2-PENTANONE  5 to 10 %

**HAZARDOUS AIR POLLUTANTS**

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

**HAZARDOUS SUBSTANCE/CHEMICALS/POLLUTANTS**

- None

**MASSACHUSETTS RIGHT TO KNOW**

- 8052-41-3  STODDARD SOLVENT  0.1 to 1.0 %
- 14808-60-7  Microcrystalline silica 98.5-99.0%  0.1 to 1.0 %
- 98-82-8  Cumene  0.1 to 1.0 %
- 100-41-4  2-ETHYL BENZENE  1 to 5 %
- 108-67-8  Benzene,1,3,5-trimethyl  1 to 5 %
- 95-63-6  * 1,2,4-TRIMETHYL BENZENE  1 to 5 %
- 1330-20-7  Mixed Xylenes  1 to 5 %
- 108-10-1  4-METHYL-2-PENTANONE  5 to 10 %
- 616-38-6  Dimethyl Carbonate  10 to 20 %
- 1332-58-7  Kaolin  10 to 20 %

**NEW JERSEY RIGHT TO KNOW**

- 8052-41-3  STODDARD SOLVENT  0.1 to 1.0 %
- 14808-60-7  Microcrystalline silica 98.5-99.0%  0.1 to 1.0 %
- 98-82-8  Cumene  0.1 to 1.0 %
- 100-41-4  2-ETHYL BENZENE  1 to 5 %
- 95-63-6  * 1,2,4-TRIMETHYL BENZENE  1 to 5 %
- 1330-20-7  Mixed Xylenes  1 to 5 %
- 108-10-1  4-METHYL-2-PENTANONE  5 to 10 %
- 616-38-6  Dimethyl Carbonate  10 to 20 %
- 1332-58-7  Kaolin  10 to 20 %

**PENNSYLVANIA RIGHT TO KNOW**

- 8052-41-3  STODDARD SOLVENT  0.1 to 1.0 %
- 14808-60-7  Microcrystalline silica 98.5-99.0%  0.1 to 1.0 %
- 98-82-8  Cumene  0.1 to 1.0 %
- 100-41-4  2-ETHYL BENZENE  1 to 5 %
- 95-63-6  * 1,2,4-TRIMETHYL BENZENE  1 to 5 %
- 1330-20-7  Mixed Xylenes  1 to 5 %
- 108-10-1  4-METHYL-2-PENTANONE  5 to 10 %
- 616-38-6  Dimethyl Carbonate  10 to 20 %
- 1332-58-7  Kaolin  10 to 20 %
CHEMICAL LIST FOR SARA 311
1330-20-7 Mixed Xylenes

CHEMICAL LIST FOR SARA 311/312
14808-60-7 Microcrystalline silica 98.5-99.0%
98-82-8 Cumene
526-73-8 Benzene,1,2,5-trimethyl
1330-20-7 Mixed Xylenes

CHEMICAL LIST FOR SARA 313
100-41-4 2-ETHYL BENZENE
95-63-6 * 1,2,4-TRIMETHYL BENZENE
1330-20-7 Mixed Xylenes
108-10-1 4-METHYL-2-PENTANONE

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)  National Fire Protection Association (NFPA)

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 concering the accuracy of the information except the product will comply with Induron specifications.

Date Prepared: 9/29/2016
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
Signal Word: Danger

### 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
### Section 9: Physical and Chemical Properties

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

### 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:**

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.

Good general mechanical ventilation and local exhaust.

**Benzyl Alcohol**

100-51-6

Not Established

Not Established

Not Established

**ISOBUTANOL**

78-83-1

100 ppm TWA; 300 mg/m³ TWA

50 ppm TWA

NIOSH: 50 ppm TWA; 150 mg/m³ TWA

**Triethylenetetraamine**

112-24-3

Not Established

Not Established

Not Established

**Fatty Acids, C18-unsaturated, dimers with polyethylenepolyamines**

68410-23-1

Not Established

Not Established

Not Established
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

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

EU Risk Phrases

Safety Phrase

- None

Section 16: Other Information

HMF 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)  
National Fire Protection Association (NFPA)

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
<th>PERSONAL PROTECTION</th>
<th>HMIS &amp; NFPA Hazard Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>* 2</td>
<td>3</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Legend

* = 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

Reviewer Revision

Date Prepared: 9/28/2016