Section 1: Manufacturer's Identification

Product Name: PERMA-CLEAN 3 WTB, MIXED FORMULA  
Product Code: A4-1115W
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
- Dermal Toxicity Acute Tox. 4
- Skin corrosive 2
- Eye corrosive 2A
- Skin sensitizer 1
- Mutagen 1B
- Carcinogen 1A
- Reproductive toxin 1B

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. Rinse skin with water/shower
P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+P313 IF exposed or concerned: Get medical advice/attention
P332+P313 If skin irritation occurs: Get medical advice/attention
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

Section 3 : Hazards Identification

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS number</th>
<th>Weight Concentration %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethyl Carbonate</td>
<td>616-38-6</td>
<td>20.00% - 30.00%</td>
</tr>
<tr>
<td>Benzene, 1-chloro-4-(trifluoromethyl)-</td>
<td>98-56-6</td>
<td>10.00% - 20.00%</td>
</tr>
<tr>
<td>Titanium Dioxide Colorant</td>
<td>13463-67-7</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>5.00% - 10.00%</td>
</tr>
<tr>
<td>Mixed Xylenes</td>
<td>1330-20-7</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>2-ETHYL BENZENE</td>
<td>100-41-4</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>Microcrystalline silica 98.5-99.0%</td>
<td>14808-60-7</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 sh
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: 12 C (54 F)
LEL: UEL:
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.

SDS for: A4-1115W
Printed: 9/10/2018 at 10:23:35AM
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 use 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 breathe 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 spark-proof tools and explosion proof 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>Dimethyl Carbonate</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
<tr>
<td>Benzene, 1-chloro-4-(trifluoromethyl)-98-56-6</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
<tr>
<td>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>Kaolin 1332-58-7</td>
<td>15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)</td>
<td>2 mg/m³ TWA (particulate matter containing no asbestos and &lt;1% crystalline silica, respirable fraction)</td>
<td>NIOSH: 10 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable dust)</td>
</tr>
<tr>
<td>Diglycidyl Ether of Bisphenol A 25068-38-6</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
<tr>
<td>Mixed Xylenes 1330-20-7</td>
<td>100 ppm TWA; 435 mg/m³ TWA</td>
<td>150 ppm STEL 100 ppm TWA</td>
<td>Not Established</td>
</tr>
<tr>
<td>Naptha(Pet), light arom. 64742-95-6</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
<tr>
<td>2-ETHYL BENZENE 100-41-4</td>
<td>100 ppm TWA; 435 mg/m³ TWA</td>
<td>20 ppm TWA</td>
<td>NIOSH: 100 ppm TWA; 435 mg/m³ TWA 125 ppm STEL; 545 mg/m³ STEL</td>
</tr>
</tbody>
</table>
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>Evaporation rate</td>
<td>NA</td>
</tr>
<tr>
<td>Explosive Limits</td>
<td>NA</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>NA</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>NA</td>
</tr>
<tr>
<td>Coating VOC Lb/Gal</td>
<td>0.47</td>
</tr>
<tr>
<td>Odor</td>
<td>NA</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>NA</td>
</tr>
<tr>
<td>pH</td>
<td>NA</td>
</tr>
<tr>
<td>Melting point</td>
<td>NA</td>
</tr>
<tr>
<td>Solubility</td>
<td>NA</td>
</tr>
<tr>
<td>Flammability</td>
<td>NA</td>
</tr>
<tr>
<td>Flash point</td>
<td>24F</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>NA</td>
</tr>
<tr>
<td>Viscosity</td>
<td>NA</td>
</tr>
<tr>
<td>Appearance</td>
<td>NA</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>NA</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>NA</td>
</tr>
<tr>
<td>DENSITY</td>
<td>11.54</td>
</tr>
<tr>
<td>Freezing point</td>
<td>NA</td>
</tr>
<tr>
<td>Boiling range</td>
<td>NA</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.

**Section 11: Toxicological Information**

**Mixture Toxicity**

- Dermal Toxicity LD50: 1,909mg/kg
- Inhalation Toxicity LC50: 165mg/L

**Component Toxicity**

<table>
<thead>
<tr>
<th>Component</th>
<th>Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>616-38-6</td>
<td>Dimethyl Carbonate</td>
</tr>
</tbody>
</table>
Oral LD50: 13 g/kg (Rat) Inhalation LC50: 140 mg/L (Rat)
98-56-6 Benzene, 1-chloro-4-(trifluoromethyl)-
Oral LD50: 13 g/kg (Rat) Dermal LD50: 3 g/kg (RABBIT) Inhalation LC50: 33 mg/L (Rat)
25068-38-6 Diglycidyl Ether of Bisphenol A
Dermal LD50: 200 mg/kg (rat)
1330-20-7 Mixed Xylenes
Oral LD50: 3,500 mg/kg (Rat) Inhalation LC50: 29 mg/L (Rat)
64742-95-6 Naptha(Pet), light arom.
Inhalation LC50: 3,400 ppm (Rat)
100-41-4 2-ETHYL BENZENE
Oral LD50: 3,500 mg/kg (Rat) Inhalation LC50: 17 mg/L (Rat)
14808-60-7 Microcrystalline silica 98.5-99.0%
Oral LD50: 500 mg/kg (Rat)

Routes of Entry:

Exposure to this material may affect the following organs:
Eyes 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>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>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>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>
</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 12: Ecological

No known significant effects or critical hazards.
Component Ecotoxicity

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

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 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

Naptha(Pet), light arom.

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

Section 13: Disposal Considerations
Minimize the generation of waste whenever possible. Dispose by license waste disposal contractor. Comply with local, regional, and federal disposal regu

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>1253</td>
<td>II</td>
<td>3</td>
</tr>
<tr>
<td>IATA</td>
<td>PAINT</td>
<td>1253</td>
<td>II</td>
<td>3</td>
</tr>
</tbody>
</table>

Section 15: Regulatory Information

All components are in compliance with TSCA inventory listing or are exempt.
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:

- 13463-67-7 Titanium Dioxide Colorant 10 to 20 %
- 100-41-4 2-ETHYL BENZENE 0.1 to 1.0 %
- 14808-60-7 Microcrystalline silica 98.5-99.0% 0.1 to 1.0 %

HAZARDOUS AIR POLLUTANTS
100-41-4 2-ETHYL BENZENE

HAZARDOUS SUBSTANCE/CHEMICALS/POLLUTANTS
None

CHEMICAL LIST FOR SARA 313
1330-20-7 Mixed Xylenes
100-41-4 2-ETHYL BENZENE
CHEMICAL LIST FOR SARA 311/312
1330-20-7  Mixed Xylenes
14808-60-7  Microcrystaline silica 98.5-99.0%

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

MASSACHUSETTS RIGHT TO KNOW
616-38-6  Dimethyl Carbonate  20 to 30 %
13463-67-7  Titanium Dioxide Colorant  10 to 20 %
1332-58-7  Kaolin  10 to 20 %
100-41-4  2-ETHYL BENZENE  0.1 to 1.0 %
14808-60-7  Microcrystaline silica 98.5-99.0%  0.1 to 1.0 %

NEW JERSEY RIGHT TO KNOW
616-38-6  Dimethyl Carbonate  20 to 30 %
13463-67-7  Titanium Dioxide Colorant  10 to 20 %
1332-58-7  Kaolin  10 to 20 %
100-41-4  2-ETHYL BENZENE  0.1 to 1.0 %
14808-60-7  Microcrystaline silica 98.5-99.0%  0.1 to 1.0 %

PENNSYLVANIA RIGHT TO KNOW
616-38-6  Dimethyl Carbonate  20 to 30 %
13463-67-7  Titanium Dioxide Colorant  10 to 20 %
1332-58-7  Kaolin  10 to 20 %
100-41-4  2-ETHYL BENZENE  0.1 to 1.0 %
14808-60-7  Microcrystaline silica 98.5-99.0%  0.1 to 1.0 %

- None

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

Safety Phrase

- None

**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

The information provided herein was believed by Induron Protective Coating to be accurate

SDS for:  A4-1115W
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: 9/10/2018

Reviewer Revision