

SAFETY DATA SHEET

Section 1: Manufacturer's Identification

Product Name: PERMA-CLEAN 3 WTB, MIXED FORMULA Product Code: A4-1115W
Manufacturer's Name: Induron Protective Coatings, LLC Emergency Phone: 1-800-424-9300
Address: 3333 Richard Arrington Blvd. N. Information Phone: (205)324-9584
Birmingham, Alabama 35234

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

Chemical Name	CAS number	Weight Concentration %
Dimethyl Carbonate	616-38-6	20.00% - 30.00%
Benzene, 1-chloro-4-(trifluoromethyl)-	98-56-6	10.00% - 20.00%
Titanium Dioxide Colorant	13463-67-7	10.00% - 20.00%
Kaolin	1332-58-7	10.00% - 20.00%
Diglycidyl Ether of Bisphenol A	25068-38-6	5.00% - 10.00%
Mixed Xylenes	1330-20-7	0.10% - 1.00%
Naptha(Pet), light arom.	64742-95-6	0.10% - 1.00%
2-ETHYL BENZENE	100-41-4	0.10% - 1.00%
Naphtha, petroleum, hydrodesulfurized heavy	64742-82-1	0.10% - 1.00%
Microcrystalline silica 98.5-99.0%	14808-60-7	0.10% - 1.00%

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.

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.

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-contained 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 upwind. 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

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Dimethyl Carbonate 616-38-6	Not Established	Not Established	Not Established
Benzene, 1-chloro-4-(trifluoromethyl)- 98-56-6	Not Established	Not Established	Not Established
Titanium Dioxide Colorant 13463-67-7	15 mg/m ³ TWA (total dust)	10 mg/m ³ TWA	Not Established
Kaolin 1332-58-7	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	2 mg/m ³ TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	NIOSH: 10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)
Diglycidyl Ether of Bisphenol A 25068-38-6	Not Established	Not Established	Not Established
Mixed Xylenes 1330-20-7	100 ppm TWA; 435 mg/m ³ TWA	150 ppm STEL 100 ppm TWA	Not Established
Naptha(Pet), light arom. 64742-95-6	Not Established	Not Established	Not Established
2-ETHYL BENZENE 100-41-4	100 ppm TWA; 435 mg/m ³ TWA	20 ppm TWA	NIOSH: 100 ppm TWA; 435 mg/m ³ TWA 125 ppm STEL; 545 mg/m ³ STEL

Naphtha, petroleum, hydrodesulfurized heavy 64742-82-1	Not Established	Not Established	Not Established
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)

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 ventation by standard emmision testing procedures, Use appropriate respiratory equipment when needed.

Assure safety traning of operators in regards to handleing 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

<p>Evaporation rate: NA</p> <p>Explosive Limits: NA</p> <p>Partition coefficient (n- NA octanol/water):</p> <p>Decomposition temperature: NA</p> <p>Coating VOC Lb/Gal 0.47</p> <p>Odor: NA</p> <p>Odor threshold: NA</p> <p>pH: NA</p> <p>Melting point: NA</p> <p>Solubility: NA</p>	<p>Flammability: NA</p> <p>Flash point: 24F</p> <p>Autoignition temperature: NA</p> <p>Viscosity: NA</p> <p>Appearance: NA</p> <p>Vapor Pressure: NA</p> <p>Vapor Density: NA</p> <p>DENSITY 11.54</p> <p>Freezing point: NA</p> <p>Boiling range: NA</p>
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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

Dermal Toxicity LD50: 1,909mg/kg

Inhalation Toxicity LC50: 165mg/L

Component Toxicity

616-38-6 Dimethyl Carbonate

98-56-6	Oral LD50: 13 g/kg (Rat) Inhalation LC50: 140 mg/L (Rat) 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).

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
64742-82-1	Naptha, petroleum, hydrodesulfurized heavy	.1 to 1.0%	Naptha, petroleum, hydrodesulfurized heavy: EU REACH: Present (P)
64742-95-6	Naptha(Pet), light arom.	.1 to 1.0%	Naptha(Pet), light arom.: EU REACH: Present (P)
13463-67-7	Titanium Dioxide Colorant	10 to 20%	Titanium Dioxide Colorant: NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed
14808-60-7	Microcrystalline silica 98.5-99.0%	.1 to 1.0%	Microcrystalline silica 98.5-99.0%: NIOSH: potential occupational carcinogen IARC: Human carcinogen OSHA: listed
100-41-4	2-ETHYL BENZENE	.1 to 1.0%	2-ETHYL BENZENE: IARC: Possible human carcinogen OSHA: listed

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 12: Ecological

No known significant effects or critical hazards.

Component Ecotoxicity

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

48 Hr EC50 Daphnia magna: 3.68 mg/L

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

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

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	PAINT	1253	II	3
IATA	PAINT	1253	II	3

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 Microcrystalline 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 Microcrystalline 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 Microcrystalline 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 Microcrystalline silica 98.5-99.0% 0.1 to 1.0 %

- None

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.

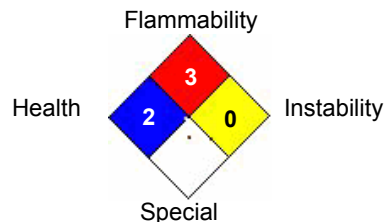
Hazardous Material Information System (HMIS)

HEALTH	*	2
FLAMMABILITY		3
PHYSICAL HAZARD		0
PERSONAL PROTECTION	G	

HMIS & NFPA Hazard Rating

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

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

Reviewer Revision

Date Prepared: 9/10/2018