

SAFETY DATA SHEET

Section 1: Manufacturer's Identification

Product Name: PERMA-TUFF SL WTB Product Code: A4-1374W

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:

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
Respiratory sensitizer	1	Respiratory sensitizer
Skin sensitizer	1	Skin sensitizer
Mutagen	1B	Known to produce heritable mutations in human germ cellsSubcategory 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

H311	Toxic in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
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
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
P285	In case of inadequate ventilation wear respiratory protection
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.
P361	Remove/Take off immediately all contaminated clothing
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
P304+P341	IF INHALED: If breathing is difficult, 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
 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
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician.
 P405 Store locked up
 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 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

Chemical Name	CAS number	Weight Concentration %
Diglycidyl Ether of Bisphenol A	25068-38-6	30.00% - 40.00%
Titanium Dioxide Colorant	13463-67-7	20.00% - 30.00%
Feldspar	68476-25-5	20.00% - 30.00%
Benzyl Alcohol	100-51-6	1.00% - 5.00%
Kaolin	1332-58-7	1.00% - 5.00%
Microcrystalline silica 98.5-99.0%	14808-60-7	1.00% - 5.00%
STODDARD SOLVENT	8052-41-3	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, hydrotreated heavy	64742-48-9	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 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: 99 C (210 F)
 LEL: 1.00 UEL: 13.00
 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 self-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
Diglycidyl Ether of Bisphenol A 25068-38-6	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
Feldspar 68476-25-5	Not Established	Not Established	Not Established
Benzyl Alcohol 100-51-6	Not Established	Not Established	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)
Microcrystalline silica 98.5-99.0% 14808-60-7	.05 mg/m ³ TWA	0.025 mg/m ³ TWA (respirable fraction)	NIOSH: 0.05 mg/m ³ TWA (respirable dust)
STODDARD SOLVENT 8052-41-3	500 ppm TWA; 2900 mg/m ³ TWA	100 ppm TWA	NIOSH: 350 mg/m ³ TWA 1800 mg/m ³ Ceiling (15 min)

Naptha(Pet), light arom. 64742-95-6	Not Established	Not Established	Not Established
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
Naphtha, petroleum, hydrotreated heavy 64742-48-9	Not Established	Not Established	Not Established

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 ventalation 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>Viscosity: N/A</p> <p>Appearance: N/A</p> <p>Vapor Pressure: 0.074 mmHg</p> <p>Vapor Density: 3.7</p> <p>DENSITY 14.38</p> <p>Freezing point: N/A</p> <p>Boiling range: 205°C</p> <p>Evaporation rate: N/A</p> <p>Explosive Limits: N/A</p> <p>Autoignition temperature: N/A</p>	<p>Coating VOC Lb/Gal 0.67</p> <p>Odor: N/A</p> <p>Odor threshold: N/A</p> <p>pH: N/A</p> <p>Melting point: N/A</p> <p>Solubility: N/A</p> <p>Flash point: 210 F,99 C</p> <p>Flammability: N/A</p> <p>Partition coefficient (n- octanol/water): N/A</p> <p>Decomposition temperature: N/A</p>
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Section 10: Stability and Reactivity

These materials are stable. Under normal conditions of storatge 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 alapahtic amines.

Under normal use, no hazardous decomposition products are produced.

Hazardous polymerization will not occur.

Section 11: Toxicological Information

Mixture Toxicity

Dermal Toxicity LD50: 640mg/kg

Inhalation Toxicity LC50: 249mg/L

Routes of Entry:

Ingestion

Exposure to this material may affect the following organs:

Eyes Kidneys 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>
14808-60-7	Microcrystalline silica 98.5-99.0%	1 to 5%	Microcrystalline silica 98.5-99.0%: NIOSH: potential occupational carcinogen IARC: Human carcinogen OSHA: listed
13463-67-7	Titanium Dioxide Colorant	20 to 30%	Titanium Dioxide Colorant: NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed
100-41-4	2-ETHYL BENZENE	.1 to 1.0%	2-ETHYL BENZENE: IARC: Possible human carcinogen OSHA: listed
8052-41-3	STODDARD SOLVENT	.1 to 1.0%	STODDARD SOLVENT: EU REACH: Present (P)
64742-48-9	Naptha, petroleum, hydrotreated heavy	.1 to 1.0%	Naptha, petroleum, hydrotreated heavy: EU REACH: Present (P)
64742-95-6	Naptha(Pet), light arom.	.1 to 1.0%	Naptha(Pet), light arom.: EU REACH: Present (P)

Section 13: Ecological

No known significant effects or critical hazards.

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
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]
Naptha, petroleum, hydrotreated heavy	96 Hr LC50 Pimephales promelas: 2200 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

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

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:

100-41-4 2-ETHYL BENZENE 0.1 to 1.0 %
14808-60-7 Microcrystalline silica 98.5-99.0% 1 to 5 %
13463-67-7 Titanium Dioxide Colorant 20 to 30 %

HAZARDOUS AIR POLLUTANTS

100-41-4 2-ETHYL BENZENE

HAZARDOUS SUBSTANCE/CHEMICALS/POLLUTANTS

- None

MASSACHUSETTS RIGHT TO KNOW

100-41-4 2-ETHYL BENZENE 0.1 to 1.0 %
8052-41-3 STODDARD SOLVENT 0.1 to 1.0 %
14808-60-7 Microcrystalline silica 98.5-99.0% 1 to 5 %
1332-58-7 Kaolin 1 to 5 %
100-51-6 Benzyl Alcohol 1 to 5 %
13463-67-7 Titanium Dioxide Colorant 20 to 30 %

NEW JERSEY RIGHT TO KNOW

100-41-4 2-ETHYL BENZENE 0.1 to 1.0 %
8052-41-3 STODDARD SOLVENT 0.1 to 1.0 %
14808-60-7 Microcrystalline silica 98.5-99.0% 1 to 5 %
1332-58-7 Kaolin 1 to 5 %
13463-67-7 Titanium Dioxide Colorant 20 to 30 %

PENNSYLVANIA RIGHT TO KNOW

100-41-4 2-ETHYL BENZENE 0.1 to 1.0 %
8052-41-3 STODDARD SOLVENT 0.1 to 1.0 %
14808-60-7 Microcrystalline silica 98.5-99.0% 1 to 5 %
1332-58-7 Kaolin 1 to 5 %
100-51-6 Benzyl Alcohol 1 to 5 %
13463-67-7 Titanium Dioxide Colorant 20 to 30 %

- None

CHEMICAL LIST FOR SARA 311

- None

CHEMICAL LIST FOR SARA 311/312

14808-60-7 Microcrystalline silica 98.5-99.0%
100-51-6 Benzyl Alcohol

Country

Regulation

All Components Listed

EU Risk Phrases

Safety Phrase

- None

Section 16: Other Information

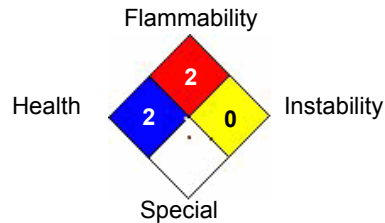
HMIS and NAFTA rating are on a 0 to 4 rating scale with 0 minimal hazard, and 4 represent significant danger or hazard.

Hazardous Material Information System (HMIS)

HEALTH	*	2
FLAMMABILITY		2
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: 9/29/2016

SAFETY DATA SHEET

Section 1: Manufacturer's Identification

Product Name: PERMA-TUFF SL CTB Product Code: A4-1377C

Manufacturer's Name: Induron Protective Coatings, LLC
Address: 3333 Richard Arrington Blvd. N.
Birmingham, Alabama 35234

Emergency Phone: 1-800-424-9300
Information Phone: (205)324-9584

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Skin sensitizer	1	Skin sensitizer
Mutagen	1B	Known to produce heritable mutations in human germ cellsSubcategory 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
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P304+P341	IF INHALED: If breathing is difficult, 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
 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
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician.
 P405 Store locked up
 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 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

Chemical Name	CAS number	Weight Concentration %
Diglycidyl Ether of Bisphenol A	25068-38-6	40.00% - 50.00%
Feldspar	68476-25-5	30.00% - 40.00%
Benzyl Alcohol	100-51-6	1.00% - 5.00%
Microcrystalline silica 98.5-99.0%	14808-60-7	1.00% - 5.00%
Kaolin	1332-58-7	1.00% - 5.00%
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Naptha(Pet), light arom.	64742-95-6	0.10% - 1.00%
2-ETHYL BENZENE	100-41-4	0.10% - 1.00%
Naphtha, petroleum, hydrotreated heavy	64742-48-9	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 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: 99 C (210 F)
 LEL: 1.00 UEL: 13.00
 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-ventilated 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.

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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

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Feldspar 68476-25-5	Not Established	Not Established	Not Established
Benzyl Alcohol 100-51-6	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)
Kaolin 1332-58-7	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	2 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	NIOSH: 10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)
STODDARD SOLVENT 8052-41-3	500 ppm TWA; 2900 mg/m3 TWA	100 ppm TWA	NIOSH: 350 mg/m3 TWA 1800 mg/m3 Ceiling (15 min)
Naptha(Pet), light arom. 64742-95-6	Not Established	Not Established	Not Established

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
Naphtha, petroleum, hydrotreated heavy 64742-48-9	Not Established	Not Established	Not Established

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 ventalation 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>Viscosity: N/A</p> <p>Appearance: N/A</p> <p>Vapor Pressure: 0.065 mmHg</p> <p>Vapor Density: 3.7</p> <p>DENSITY: 12.00</p> <p>Freezing point: N/A</p> <p>Boiling range: 205°C</p> <p>Evaporation rate: N/A</p> <p>Explosive Limits: N/A</p> <p>Autoignition temperature: N/A</p>	<p>Coating VOC Lb/Gal: 0.74</p> <p>Odor: N/A</p> <p>Odor threshold: N/A</p> <p>pH: N/A</p> <p>Melting point: N/A</p> <p>Solubility: N/A</p> <p>Flash point: 210 F, 99 C</p> <p>Flammability: N/A</p> <p>Partition coefficient (n-octanol/water): N/A</p> <p>Decomposition temperature: N/A</p>
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Section 10: Stability and Reactivity

These materials are stable. Under normal conditions of storatge 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 alapahtic amines.

Under normal use, no hazardous decomposition products are produced.

Hazardous polymerization will not occur.

Section 11: Toxicological Information

Mixture Toxicity

Dermal Toxicity LD50: 473mg/kg

Inhalation Toxicity LC50: 184mg/L

Routes of Entry:

Ingestion

Exposure to this material may affect the following organs:

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>
14808-60-7	Microcrystalline silica 98.5-99.0%	1 to 5%	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
8052-41-3	STODDARD SOLVENT	.1 to 1.0%	STODDARD SOLVENT: EU REACH: Present (P)
64742-48-9	Naphtha, petroleum, hydrotreated heavy	.1 to 1.0%	Naphtha, petroleum, hydrotreated heavy: EU REACH: Present (P)
64742-95-6	Naptha(Pet), light arom.	.1 to 1.0%	Naptha(Pet), light arom.: EU REACH: Present (P)

Section 13: Ecological

No known significant effects or critical hazards.

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
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]
Naphtha, petroleum, hydrotreated heavy	96 Hr LC50 Pimephales promelas: 2200 mg/L

Section 13: Disposal Considerations

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

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			
IATA	PAINT			

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:

- 100-41-4 2-ETHYL BENZENE 0.1 to 1.0 %
- 14808-60-7 Microcrystalline silica 98.5-99.0% 1 to 5 %

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

HAZARDOUS SUBSTANCE/CHEMICALS/POLLUTANTS
- None

MASSACHUSETTS RIGHT TO KNOW
100-41-4 2-ETHYL BENZENE 0.1 to 1.0 %
8052-41-3 STODDARD SOLVENT 0.1 to 1.0 %
1332-58-7 Kaolin 1 to 5 %
14808-60-7 Microcrystalline silica 98.5-99.0% 1 to 5 %
100-51-6 Benzyl Alcohol 1 to 5 %

NEW JERSEY RIGHT TO KNOW
100-41-4 2-ETHYL BENZENE 0.1 to 1.0 %
8052-41-3 STODDARD SOLVENT 0.1 to 1.0 %
1332-58-7 Kaolin 1 to 5 %
14808-60-7 Microcrystalline silica 98.5-99.0% 1 to 5 %

PENNSYLVANIA RIGHT TO KNOW
100-41-4 2-ETHYL BENZENE 0.1 to 1.0 %
8052-41-3 STODDARD SOLVENT 0.1 to 1.0 %
1332-58-7 Kaolin 1 to 5 %
14808-60-7 Microcrystalline silica 98.5-99.0% 1 to 5 %
100-51-6 Benzyl Alcohol 1 to 5 %

- None

CHEMICAL LIST FOR SARA 311
- None

CHEMICAL LIST FOR SARA 311/312
14808-60-7 Microcrystalline silica 98.5-99.0%
100-51-6 Benzyl Alcohol

CHEMICAL LIST FOR SARA 313
100-41-4 2-ETHYL BENZENE

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
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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.

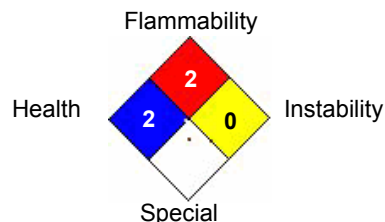
Hazardous Material Information System (HMIS)

HEALTH	*	2
FLAMMABILITY		2
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: 9/29/2016

SAFETY DATA SHEET

Section 1: Manufacturer's Identification

Product Name: PERMA-TUFF SL GRAY Product Code: A4-8370

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:

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
Respiratory sensitizer	1	Respiratory sensitizer
Skin sensitizer	1	Skin sensitizer
Mutagen	1B	Known to produce heritable mutations in human germ cellsSubcategory 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

H311	Toxic in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
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
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
P285	In case of inadequate ventilation wear respiratory protection
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P321	Wash contaminated skin, follow Physcian's instructions for treatment.
P322	Specific measures Remove contaminated clothing and protective equipment.
P361	Remove/Take off immediately all contaminated clothing
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
P304+P341	IF INHALED: If breathing is difficult, 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
 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
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician.
 P405 Store locked up
 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 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

Chemical Name	CAS number	Weight Concentration %
Diglycidyl Ether of Bisphenol A	25068-38-6	30.00%
Titanium Dioxide Colorant	13463-67-7	26.00%
Feldspar	68476-25-5	23.00%
Benzyl Alcohol	100-51-6	3.00%
Kaolin	1332-58-7	3.00%
Microcrystalline silica 98.5-99.0%	14808-60-7	3.00%
STODDARD SOLVENT	8052-41-3	0.30%
Naptha(Pet), light arom.	64742-95-6	0.20%
Carbon black	1333-86-4	0.20%
2-ETHYL BENZENE	100-41-4	0.10%

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: 98 C (208 F)
 LEL: 1.00 UEL: 13.00
 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. Use 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 cc
Decomposition products may include the following materials: Carbon Oxides.

Fire fighters should wear appropriate protective equipment and well-ventilated 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
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 a
Stop leak if without risk. Move containers from area. Approach from upwind. Prevent run off to water source, basements, sewers, or confined areas. Cc

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
Store in designated flammable liquid storage areas. Protect from direct sunlight in dry, cool ventilated areas. Keep food and drink away from area. Eliminate
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
Diglycidyl Ether of Bisphenol A 25068-38-6	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
Feldspar 68476-25-5	Not Established	Not Established	Not Established
Benzyl Alcohol 100-51-6	Not Established	Not Established	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)
Microcrystalline silica 98.5-99.0% 14808-60-7	0.05 mg/m ³ TWA	0.025 mg/m ³ TWA (respirable fraction)	NIOSH: 0.05 mg/m ³ TWA (respirable dust)
STODDARD SOLVENT 8052-41-3	500 ppm TWA; 2900 mg/m ³ TWA	100 ppm TWA	NIOSH: 350 mg/m ³ TWA 1800 mg/m ³ Ceiling (15 min)
Naptha(Pet), light arom. 64742-95-6	Not Established	Not Established	Not Established
Carbon black 1333-86-4	3.5 mg/m ³ TWA	3 mg/m ³ TWA (inhalable fraction)	NIOSH: 3.5 mg/m ³ TWA; 0.1 mg/m ³ TWA (Carbon black in presence of Polycyclic aromatic hydrocarbons, as PAH)
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

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to meet exposure to airborne cotamin
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 su
Use appropriate protective equipment according to OSHA and NAFTA standards and labeling. Ensure eye wash stations and safety showers are availab
Wash contaminated gear and clothing before reuse.

Section 9: Physical and Chemical Properties

<p>Appearance: N/A</p> <p>Vapor Pressure: 0.10 mmHg</p> <p>Vapor Density: 3.8</p> <p>DENSITY 14.37</p> <p>Freezing point: N/A</p> <p>Boiling range: 205°C</p> <p>Evaporation rate: N/A</p> <p>Explosive Limits: N/A</p> <p>Autoignition temperature: N/A</p> <p>Viscosity: N/A</p>	<p>Odor: N/A</p> <p>Odor threshold: N/A</p> <p>pH: N/A</p> <p>Melting point: N/A</p> <p>Solubility: N/A</p> <p>Flash point: 208 F,98 C</p> <p>Flammability: N/A</p> <p>Partition coefficient (n- octanol/water): N/A</p> <p>Decomposition temperature: N/A</p> <p>Coating VOC Lb/Gal 0.68</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 alapahtic amines.

Under normal use, no hazardous decomposition products are produced.

Hazardous polymerization will not occur.

Section 11: Toxicological Information

Mixture Toxicity

Dermal Toxicity LD50: 649mg/kg
Inhalation Toxicity LC50: 253mg/L

Routes of Entry:

Exposure to this material may affect the following organs:

- Eyes
- Kidneys
- 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>
1333-86-4	Carbon black	0.2	Carbon black: NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed

14808-60-7	Microcrystalline silica 98.5-99.0%	3	Microcrystalline silica 98.5-99.0%: NIOSH: potential occupational carcinogen IARC: Human carcinogen OSHA: listed
13463-67-7	Titanium Dioxide Colorant	26	Titanium Dioxide Colorant: NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed
8052-41-3	STODDARD SOLVENT	0.3	STODDARD SOLVENT: EU REACH: Present (P)
64742-95-6	Naptha(Pet), light arom.	0.2	Naptha(Pet), light arom.: EU REACH: Present (P)
100-41-4	2-ETHYL BENZENE	0.1	2-ETHYL BENZENE: IARC: Possible human carcinogen OSHA: listed

Section 12: Ecological Information

No known significant effects or critical hazards.

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
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 licensed waste disposal contractor. Comply with local, regional, and federal disposal regulations.

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			
IATA	PAINT			

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:

- 100-41-4 2-ETHYL BENZENE 0 %
- 1333-86-4 Carbon black 0 %
- 14808-60-7 Microcrystalline silica 98.5-99.0% 3 %
- 13463-67-7 Titanium Dioxide Colorant 26 %

HAZARDOUS AIR POLLUTANTS

- 100-41-4 2-ETHYL BENZENE

HAZARDOUS SUBSTANCE/CHEMICALS/POLLUTANTS

- None

MASSACHUSETTS RIGHT TO KNOW

- 100-41-4 2-ETHYL BENZENE 0 %
- 1333-86-4 Carbon black 0 %
- 8052-41-3 STODDARD SOLVENT 0 %
- 14808-60-7 Microcrystalline silica 98.5-99.0% 3 %
- 1332-58-7 Kaolin 3 %
- 100-51-6 Benzyl Alcohol 3 %
- 13463-67-7 Titanium Dioxide Colorant 26 %

NEW JERSEY RIGHT TO KNOW

- 100-41-4 2-ETHYL BENZENE 0 %
- 1333-86-4 Carbon black 0 %
- 8052-41-3 STODDARD SOLVENT 0 %
- 14808-60-7 Microcrystalline silica 98.5-99.0% 3 %
- 1332-58-7 Kaolin 3 %
- 13463-67-7 Titanium Dioxide Colorant 26 %

PENNSYLVANIA RIGHT TO KNOW

- 100-41-4 2-ETHYL BENZENE 0 %
- 1333-86-4 Carbon black 0 %
- 8052-41-3 STODDARD SOLVENT 0 %
- 14808-60-7 Microcrystalline silica 98.5-99.0% 3 %
- 1332-58-7 Kaolin 3 %
- 100-51-6 Benzyl Alcohol 3 %
- 13463-67-7 Titanium Dioxide Colorant 26 %

- None

CHEMICAL LIST FOR SARA 311

- None

- 14808-60-7 Microcrystalline silica 98.5-99.0%
- 100-51-6 Benzyl Alcohol

CHEMICAL LIST FOR SARA 313

- 100-41-4 2-ETHYL BENZENE

Country

Regulation

All Components Listed

EU Risk Phrases

Safety Phrase

- None

Section 16: Other Information

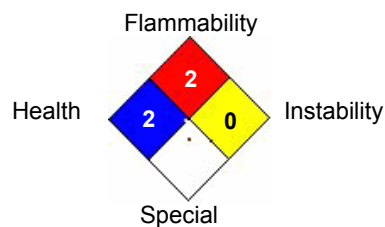
HMIS and NAFTA rating are on a 0 to 4 rating scale with 0 minimal hazard, and 4 represent significant danger or hazard.

Hazardous Material Information System (HMIS)

HEALTH	*	2
FLAMMABILITY		2
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

Reviewer Revision

Date Prepared: 8/2/2016

SAFETY DATA SHEET

Section 1: Manufacturer's Identification

Product Name: PERMATUFF ACTIVATOR Product Code: Q4-1375

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:

Oral Toxicity	Acute Tox. 4	Oral>300+<=2000mg/kg
Inhalation Toxicity	Acute Tox. 4	Gases>2500+<=5000ppm, Vapors>10+<=20mg/l, Dusts&mists>1+<=5mg/l
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

H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H332	Harmful if inhaled

GHS Precautions

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
P271	Use only outdoors or in a well-ventilated area
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P310	Immediately call a POISON CENTER or doctor/physician
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P321	Wash contaminated skin, follow Physician's instructions for treatment.
P330	Rinse mouth
P363	Wash contaminated clothing before reuse
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P302+P352	IF ON SKIN: Wash with soap and water
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
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 %
Benzyl Alcohol	100-51-6	40.00% - 50.00%
Modified Polyamine	1477-55-0	20.00% - 30.00%

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: 112 C (234 F)

LEL: 1.00

UEL: 13.00

Carbon dioxide, foam, dry chemical, water spray.

Decomposition and combustion products may be toxic

Self contained breathing apparatus

Section 6: Accidental Release Measures

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

Section 7: Handling and Storage

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

Section 8: Exposure Controls/ Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Benzyl Alcohol 100-51-6	Not Established	Not Established	Not Established
Modified Polyamine 1477-55-0	Not Established	0.1 mg/m3 Ceiling	NIOSH: 0.1 mg/m3 Ceiling

Good general mechanical ventilation and local exhaust.

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

Section 9: Physical and Chemical Properties

<p>Viscosity: N/A</p> <p>Appearance: N/A</p> <p>Vapor Pressure: 0.025 mmHg</p> <p>Vapor Density: 3.7</p> <p>DENSITY 9.03</p> <p>Freezing point: N/A</p> <p>Boiling range: 205°C</p> <p>Evaporation rate: N/A</p> <p>Explosive Limits: N/A</p> <p>Autoignition temperature: N/A</p>	<p>Coating VOC Lb/Gal 0.00</p> <p>Odor: N/A</p> <p>Odor threshold: N/A</p> <p>pH: N/A</p> <p>Melting point: N/A</p> <p>Solubility: N/A</p> <p>Flash point: 234 F, 112 C</p> <p>Flammability: N/A</p> <p>Partition coefficient (n-octanol/water): N/A</p> <p>Decomposition temperature: N/A</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 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: 1,298mg/kg
 Dermal Toxicity LD50: 2,742mg/kg
 Inhalation Toxicity LC50: 18mg/L

Routes of Entry:

Ingestion

Exposure to this material may affect the following organs:

Eyes Kidneys Liver Skin Respiratory System

Effects of Overexposure

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
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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

Section 13: Disposal Considerations

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

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			
IATA	PAINT			

Section 15: Regulatory Information

MASSACHUSETTS RIGHT TO KNOW

1477-55-0 Modified Polyamine 20 to 30 %

100-51-6 Benzyl Alcohol 40 to 50 %

NEW JERSEY RIGHT TO KNOW

1477-55-0 Modified Polyamine 20 to 30 %

PENNSYLVANIA RIGHT TO KNOW

1477-55-0 Modified Polyamine 20 to 30 %

100-51-6 Benzyl Alcohol 40 to 50 %

100-51-6 Benzyl Alcohol

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
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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	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	G

HMIS & NFPA Hazard Rating

Legend

* = Chronic Health Hazard

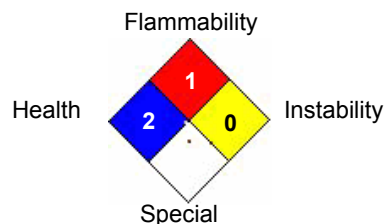
0 = INSIGNIFICANT

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.

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