

# SAFETY DATA SHEET

## Section 1: Manufacturer's Identification

Product Name: TL70 EPOXY BLUE, PART A Product Code: A4-4470

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)
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
Carcinogen	1A	Known Human Carcinogen Based on human evidence
Reproductive toxin	1B	Presumed, Based on experimental animals

### GHS Hazards

H225	Highly flammable
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
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.
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.
P281	Use personal protective equipment as required
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
P308+P313	IF exposed or concerned: Get medical advice/attention
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
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 %
Fatty Acids, C18-unsaturated, dimers with polyethylenepolyamines	68410-23-1	8.00%
ISOBUTANOL	78-83-1	6.00%
Titanium Dioxide Colorant	13463-67-7	5.00%
* 1,2,4-TRIMETHYL BENZENE	95-63-6	4.00%
Methyl Ethyl Ketone	78-93-3	2.00%
Benzene, 1,2,5-trimethyl	526-73-8	2.00%
Benzene, 1,3,5-trimethyl	108-67-8	2.00%
Mixed Xylenes	1330-20-7	1.00%
Cumene	98-82-8	0.70%
2-ETHYL BENZENE	100-41-4	0.30%
Microcrystalline silica 98.5-99.0%	14808-60-7	0.20%

(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 laundry 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: -5 C (23 F)

LEL: 1.00

UEL: 11.00

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
Fatty Acids, C18-unsaturated, dimers with polyethylenepolyamines 68410-23-1	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
Titanium Dioxide Colorant 13463-67-7	15 mg/m3 TWA (total dust)	10 mg/m3 TWA	Not Established
* 1,2,4-TRIMETHYL BENZENE 95-63-6	Not Established	Not Established	NIOSH: 25 ppm TWA; 125 mg/m3 TWA
Methyl Ethyl Ketone 78-93-3	200 ppm TWA; 590 mg/m3 TWA	300 ppm STEL 200 ppm TWA	NIOSH: 200 ppm TWA; 590 mg/m3 TWA 300 ppm STEL; 885 mg/m3 STEL
Benzene, 1,2,5-trimethyl 526-73-8	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
Mixed Xylenes 1330-20-7	100 ppm TWA; 435 mg/m3 TWA	150 ppm STEL 100 ppm TWA	Not Established
Cumene 98-82-8	50 ppm TWA; 245 mg/m3 TWA	50 ppm TWA	NIOSH: 50 ppm TWA; 245 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
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)

Good general mechanical ventilation and local exhaust.

Assure personnel safety training.

W

ear protective equipment to prevent exposure and personal contact.

W

ear impervious gloves

Use NIOSH approved vapor respirator if required.

W

ear splash proof goggles.

W

ash cloths before reuse. Dispose of contaminated shoes.

### Section 9: Physical and Chemical Properties

<b>Viscosity:</b> NA <b>Odor:</b> MILD, AROMATIC <b>Odor threshold:</b> NO DATA <b>pH:</b> 7 <b>Melting point:</b> -56F/-47C <b>Solubility:</b> NA <b>Flash point:</b> 23 F,-5 C <b>Flammability:</b> 1.37  <b>Partition coefficient (n- NA octanol/water):</b> <b>Decomposition temperature:</b> NO DATA	<b>Appearance:</b> CLEAR <b>VAPOR PRESURE</b> 1.065kPa@25C <b>Vapor Density:</b> 3.66 <b>DENSITY</b> 11.46 <b>Freezing point:</b> NA <b>Boiling range:</b> 137C <b>Evaporation rate:</b> 0.86 <b>Explosive Limits:</b> LOWER/UPPER 1%/6.6% <b>Autoignition temperature:</b> 980F/527C  <b>Coating VOC Lb/Gal</b> 2.19
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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

Inhalation Toxicity LC50: 147mg/L

Routes of Entry:

**Inhalation**

**Skin Contact**

**Eye Contact**

**Ingestion**

Exposure to this material may affect the following organs:

**Blood Eyes**

**Lungs**

**Central Nervous System**

**Skin**

**Respiratory System**

#### Effects of Overexposure

CAS Number

14808-60-7

Description

Microcrystalline silica 98.5-99.0%

% Weight

0.2

Carcinogen Rating

Microcrystalline silica 98.5-99.0%:  
NIOSH: potential occupational carcinogen  
IARC: Human carcinogen  
OSHA: listed

13463-67-7	Titanium Dioxide Colorant	5	Titanium Dioxide Colorant: NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed
100-41-4	2-ETHYL BENZENE	0.3	2-ETHYL BENZENE: IARC: Possible human carcinogen OSHA: listed
98-82-8	Cumene	0.7	Cumene: IARC: Possible human carcinogen OSHA: listed

## Section 12: Ecological Information

None available.

### Component Ecotoxicity

#### 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]

#### \* 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

#### Methyl Ethyl Ketone

96 Hr LC50 Pimephales promelas: 3130 - 3320 mg/L [flow-through]  
48 Hr EC50 Daphnia magna: >520 mg/L; 48 Hr EC50 Daphnia magna: 5091 mg/L; 48 Hr EC50 Daphnia magna: 4025 - 6440 mg/L [Static]

#### Benzene,1,3,5-trimethyl

96 Hr LC50 Pimephales promelas: 3.48 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

#### 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

#### 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**

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	1263	II	3
IATA	PAINT	1263	II	3

**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 %  
 100-41-4 2-ETHYL BENZENE 0 %  
 98-82-8 Cumene 1 %  
 13463-67-7 Titanium Dioxide Colorant 5 %

**HAZARDOUS AIR POLLUTANTS**

100-41-4 2-ETHYL BENZENE  
 98-82-8 Cumene  
 1330-20-7 Mixed Xylenes

**MASSACHUSETTS RIGHT TO KNOW**

14808-60-7 Microcrystalline silica 98.5-99.0% 0 %  
 100-41-4 2-ETHYL BENZENE 0 %  
 98-82-8 Cumene 1 %  
 1330-20-7 Mixed Xylenes 1 %  
 108-67-8 Benzene,1,3,5-trimethyl 2 %  
 78-93-3 Methyl Ethyl Ketone 2 %  
 95-63-6 \* 1,2,4-TRIMETHYL BENZENE 4 %  
 13463-67-7 Titanium Dioxide Colorant 5 %  
 78-83-1 ISOBUTANOL 6 %

**NEW JERSEY RIGHT TO KNOW**

14808-60-7 Microcrystalline silica 98.5-99.0% 0 %  
 100-41-4 2-ETHYL BENZENE 0 %  
 98-82-8 Cumene 1 %  
 1330-20-7 Mixed Xylenes 1 %  
 78-93-3 Methyl Ethyl Ketone 2 %  
 95-63-6 \* 1,2,4-TRIMETHYL BENZENE 4 %  
 13463-67-7 Titanium Dioxide Colorant 5 %  
 78-83-1 ISOBUTANOL 6 %

**PENNSYLVANIA RIGHT TO KNOW**

14808-60-7 Microcrystalline silica 98.5-99.0% 0 %  
 100-41-4 2-ETHYL BENZENE 0 %  
 98-82-8 Cumene 1 %  
 1330-20-7 Mixed Xylenes 1 %  
 78-93-3 Methyl Ethyl Ketone 2 %  
 95-63-6 \* 1,2,4-TRIMETHYL BENZENE 4 %  
 13463-67-7 Titanium Dioxide Colorant 5 %  
 78-83-1 ISOBUTANOL 6 %

CHEMICAL LIST FOR SARA 311

1330-20-7 Mixed Xylenes

14808-60-7 Microcrystalline silica 98.5-99.0%

98-82-8 Cumene

1330-20-7 Mixed Xylenes

526-73-8 Benzene, 1,2,5-trimethyl

78-93-3 Methyl Ethyl Ketone

78-83-1 ISOBUTANOL

CHEMICAL LIST FOR SARA 313

100-41-4 2-ETHYL BENZENE

1330-20-7 Mixed Xylenes

95-63-6 \* 1,2,4-TRIMETHYL 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	1
FLAMMABILITY	3
PHYSICAL HAZARD	1
PERSONAL PROTECTION	G

**HMIS & NFPA Hazard Rating**

**Legend**

\* = Chronic Health Hazard

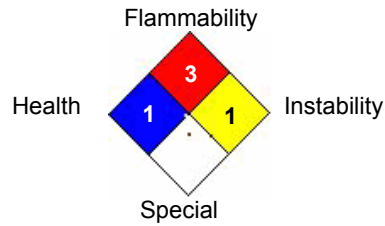
0 = INSIGNIFICANT

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: 8/2/2016

# SAFETY DATA SHEET

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### GHS Hazards

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P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
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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 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**

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Titanium Dioxide Colorant	13463-67-7	4.00%
Methyl Ethyl Ketone	78-93-3	2.00%
Benzene,1,2,5-trimethyl	526-73-8	2.00%
Benzene,1,3,5-trimethyl	108-67-8	2.00%
Mixed Xylenes	1330-20-7	1.00%
Cumene	98-82-8	0.70%
2-ETHYL BENZENE	100-41-4	0.30%
Microcrystalline silica 98.5-99.0%	14808-60-7	0.20%

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

**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: -4 C (25 F)

LEL: 1.00

UEL: 11.00

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, CO<sub>2</sub>, 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, CO<sub>2</sub>, 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, diatomaceous 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
Fatty Acids, C18-unsaturated, dimers with polyethylenepolyamines 68410-23-1	Not Established	Not Established	Not Established
ISOBUTANOL 78-83-1	100 ppm TWA; 300 mg/m <sup>3</sup> TWA	50 ppm TWA	NIOSH: 50 ppm TWA; 150 mg/m <sup>3</sup> TWA
* 1,2,4-TRIMETHYLBENZENE 95-63-6	Not Established	Not Established	NIOSH: 25 ppm TWA; 125 mg/m <sup>3</sup> TWA
Titanium Dioxide Colorant 13463-67-7	15 mg/m <sup>3</sup> TWA (total dust)	10 mg/m <sup>3</sup> TWA	Not Established

Methyl Ethyl Ketone 78-93-3	200 ppm TWA; 590 mg/m3 TWA	300 ppm STEL 200 ppm TWA	NIOSH: 200 ppm TWA; 590 mg/m3 TWA 300 ppm STEL; 885 mg/m3 STEL
Benzene, 1,2,5-trimethyl 526-73-8	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
Mixed Xylenes 1330-20-7	100 ppm TWA; 435 mg/m3 TWA	150 ppm STEL 100 ppm TWA	Not Established
Cumene 98-82-8	50 ppm TWA; 245 mg/m3 TWA	50 ppm TWA	NIOSH: 50 ppm TWA; 245 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
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 ventlation by standard emmission 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

<p><b>Appearance:</b> N/A</p> <p><b>Vapor Pressure:</b> 14.1 mmHg@20C</p> <p><b>Vapor Density:</b> 3.3</p> <p><b>DENSITY:</b> 11.47</p> <p><b>Freezing point:</b> N/A</p> <p><b>Boiling range:</b> 80°C</p> <p><b>Evaporation rate:</b> N/A</p> <p><b>Explosive Limits:</b> N/A</p> <p><b>Autoignition temperature:</b> N/A</p> <p><b>Viscosity:</b> N/A</p>	<p><b>Odor:</b> N/A</p> <p><b>Odor threshold:</b> N/A</p> <p><b>pH:</b> N/A</p> <p><b>Melting point:</b> N/A</p> <p><b>Solubility:</b> N/A</p> <p><b>Flash point:</b> 25 F,-4 C</p> <p><b>Flammability:</b> N/A</p> <p><b>Partition coefficient (n- N/A octanol/water):</b></p> <p><b>Decomposition temperature:</b> N/A</p> <p><b>Coating VOC Lb/Gal:</b> 2.19</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**

Inhalation Toxicity LC50: 147mg/L

Routes of Entry:

<b>Inhalation</b>	<b>Skin Contact</b>	<b>Eye Contact</b>	<b>Ingestion</b>
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Exposure to this material may affect the following organs:

<b>Blood</b>	<b>Eyes</b>	<b>Lungs</b>	<b>Central Nervous System</b>	<b>Skin</b>	<b>Respiratory System</b>
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**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%	0.2	Microcrystalline silica 98.5-99.0%: NIOSH: potential occupational carcinogen IARC: Human carcinogen OSHA: listed
13463-67-7	Titanium Dioxide Colorant	4	Titanium Dioxide Colorant: NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed
100-41-4	2-ETHYL BENZENE	0.3	2-ETHYL BENZENE: IARC: Possible human carcinogen OSHA: listed
98-82-8	Cumene	0.7	Cumene: IARC: Possible human carcinogen OSHA: listed

**Section 12: Ecological Information**

No known significant effects or critical hazards.

**Component Ecotoxicity**

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]
* 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
Methyl Ethyl Ketone	96 Hr LC50 Pimephales promelas: 3130 - 3320 mg/L [flow-through] 48 Hr EC50 Daphnia magna: >520 mg/L; 48 Hr EC50 Daphnia magna: 5091 mg/L; 48 Hr EC50 Daphnia magna: 4025 - 6440 mg/L [Static]

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

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

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 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	1263	II	3
IATA	PAINT	1263	II	3

### 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 %
- 100-41-4 2-ETHYL BENZENE 0 %
- 98-82-8 Cumene 1 %
- 13463-67-7 Titanium Dioxide Colorant 4 %

HAZARDOUS AIR POLLUTANTS  
100-41-4 2-ETHYL BENZENE  
98-82-8 Cumene  
1330-20-7 Mixed Xylenes

HAZARDOUS SUBSTANCE/CHEMICALS/POLLUTANTS

- None

MASSACHUSETTS RIGHT TO KNOW

14808-60-7 Microcrystalline silica 98.5-99.0% 0 %  
100-41-4 2-ETHYL BENZENE 0 %  
98-82-8 Cumene 1 %  
1330-20-7 Mixed Xylenes 1 %  
108-67-8 Benzene,1,3,5-trimethyl 2 %  
78-93-3 Methyl Ethyl Ketone 2 %  
13463-67-7 Titanium Dioxide Colorant 4 %  
95-63-6 \* 1,2,4-TRIMETHYL BENZENE 4 %  
78-83-1 ISOBUTANOL 6 %

NEW JERSEY RIGHT TO KNOW

14808-60-7 Microcrystalline silica 98.5-99.0% 0 %  
100-41-4 2-ETHYL BENZENE 0 %  
98-82-8 Cumene 1 %  
1330-20-7 Mixed Xylenes 1 %  
78-93-3 Methyl Ethyl Ketone 2 %  
13463-67-7 Titanium Dioxide Colorant 4 %  
95-63-6 \* 1,2,4-TRIMETHYL BENZENE 4 %  
78-83-1 ISOBUTANOL 6 %

PENNSYLVANIA RIGHT TO KNOW

14808-60-7 Microcrystalline silica 98.5-99.0% 0 %  
100-41-4 2-ETHYL BENZENE 0 %  
98-82-8 Cumene 1 %  
1330-20-7 Mixed Xylenes 1 %  
78-93-3 Methyl Ethyl Ketone 2 %  
13463-67-7 Titanium Dioxide Colorant 4 %  
95-63-6 \* 1,2,4-TRIMETHYL BENZENE 4 %  
78-83-1 ISOBUTANOL 6 %

- None

CHEMICAL LIST FOR SARA 311

1330-20-7 Mixed Xylenes

14808-60-7 Microcrystalline silica 98.5-99.0%  
98-82-8 Cumene  
1330-20-7 Mixed Xylenes  
526-73-8 Benzene,1,2,5-trimethyl  
78-93-3 Methyl Ethyl Ketone  
78-83-1 ISOBUTANOL

CHEMICAL LIST FOR SARA 313

100-41-4 2-ETHYL BENZENE  
1330-20-7 Mixed Xylenes  
95-63-6 \* 1,2,4-TRIMETHYL BENZENE

**Country**

**Regulation**

**All Components Listed**

**EU Risk Phrases**

**Safety Phrase**

- None

**Section 16: Other Information**

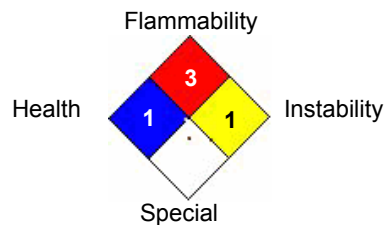
HMIS and NAFTA rating are on a 0 to 4 rating scale with 0 minimal hazard, and 4 represent significant danger or hazard.

**Hazardous Material Information System (HMIS)**

HEALTH	1
FLAMMABILITY	3
PHYSICAL HAZARD	1
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: 8/2/2016

# SAFETY DATA SHEET

## Section 1: Manufacturer's Identification

Product Name: TL70 EPOXY ACTIVATOR, PART B Product Code: Q4-1070  
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)
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

### GHS Hazards

H225	Highly flammable
H311	Toxic in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation

### 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.
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.
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
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
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



**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	80.00% - 90.00%
Methyl Ethyl Ketone	78-93-3	10.00% - 20.00%
n-BUTYL ACETATE	123-86-4	5.00% - 10.00%

**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: -4 C (24 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, CO<sub>2</sub>, 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, CO<sub>2</sub>, 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 runoff 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
Methyl Ethyl Ketone 78-93-3	200 ppm TWA; 590 mg/m3 TWA	300 ppm STEL 200 ppm TWA	NIOSH: 200 ppm TWA; 590 mg/m3 TWA 300 ppm STEL; 885 mg/m3 STEL
n-BUTYL ACETATE 123-86-4	150 ppm TWA; 710 mg/m3 TWA	200 ppm STEL 150 ppm TWA	NIOSH: 150 ppm TWA; 710 mg/m3 TWA 200 ppm STEL; 950 mg/m3 STEL

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to meet exposure to airborne contaminants. Ensure adequate ventilation by standard emission testing procedures. Use appropriate respiratory equipment when needed. Ensure safety training of operators in regards to handling liquids and vapors. Follow local regulatory rules of exposure control using air purifying or air supplied respirators. 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><b>Viscosity:</b> N/A</p> <p><b>Appearance:</b> N/A</p> <p><b>Vapor Pressure:</b> 12.3 mmHg</p> <p><b>Vapor Density:</b> 3.0</p> <p><b>DENSITY:</b> 9.07</p> <p><b>Freezing point:</b> N/A</p> <p><b>Boiling range:</b> 80°C</p> <p><b>Evaporation rate:</b> N/A</p> <p><b>Explosive Limits:</b> N/A</p> <p><b>Autoignition temperature:</b> N/A</p>	<p><b>Coating VOC Lb/Gal:</b> 1.72</p> <p><b>Odor:</b> N/A</p> <p><b>Odor threshold:</b> N/A</p> <p><b>pH:</b> N/A</p> <p><b>Melting point:</b> N/A</p> <p><b>Solubility:</b> N/A</p> <p><b>Flash point:</b> 24 F, -4 C</p> <p><b>Flammability:</b> N/A</p> <p><b>Partition coefficient (n-octanol/water):</b> N/A</p> <p><b>Decomposition temperature:</b> 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, 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: 245mg/kg

Inhalation Toxicity LC50: 4,696mg/L

Routes of Entry:

Exposure to this material may affect the following organs:

Eyes          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>
None			N/A

## Section 12: Ecological

No known significant effects or critical hazards.

### Component Ecotoxicity

Methyl Ethyl Ketone	96 Hr LC50 Pimephales promelas: 3130 - 3320 mg/L [flow-through] 48 Hr EC50 Daphnia magna: >520 mg/L; 48 Hr EC50 Daphnia magna: 5091 mg/L; 48 Hr EC50 Daphnia magna: 4025 - 6440 mg/L [Static]
n-BUTYL ACETATE	96 Hr LC50 Lepomis macrochirus: 100 mg/L [static]; 96 Hr LC50 Pimephales promelas: 17 - 19 mg/L [flow-through] 72 Hr EC50 Desmodesmus subspicatus: 674.7 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 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	1263	II	3
IATA	PAINT	1263	II	3

## 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:

- None

HAZARDOUS AIR POLLUTANTS

- None

HAZARDOUS SUBSTANCE/CHEMICALS/POLLUTANTS

- None

MASSACHUSETTS RIGHT TO KNOW

123-86-4 n-BUTYL ACETATE 5 to 10 %

78-93-3 Methyl Ethyl Ketone 10 to 20 %

NEW JERSEY RIGHT TO KNOW

123-86-4 n-BUTYL ACETATE 5 to 10 %

78-93-3 Methyl Ethyl Ketone 10 to 20 %

PENNSYLVANIA RIGHT TO KNOW

123-86-4 n-BUTYL ACETATE 5 to 10 %

78-93-3 Methyl Ethyl Ketone 10 to 20 %

- None

CHEMICAL LIST FOR SARA 311

- None

CHEMICAL LIST FOR SARA 311/312

78-93-3 Methyl Ethyl Ketone

CHEMICAL LIST FOR SARA 313

- 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	1
FLAMMABILITY	3
PHYSICAL HAZARD	1
PERSONAL PROTECTION	G

**HMIS & NFPA Hazard Rating**

**Legend**

\* = Chronic Health Hazard

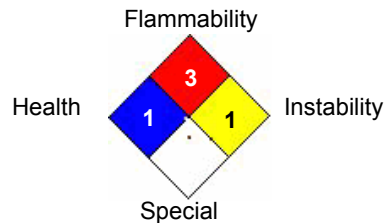
0 = INSIGNIFICANT

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: 11/3/2016