

# SAFETY DATA SHEET

## Section 1: Manufacturer's Identification

Product Name: PERMA-CLEAN II CTB, COMPONENT A    Product Code: A4-1114C  
Manufacturer's Name: Induron Protective Coatings, LLC    Emergency Phone: 1-800-424-9300  
Address: 3333 Richard Arrington Blvd. N.    Information Phone: (205)324-9584  
Birmingham, Alabama 35234

## Section 2 : Hazards Identification

### GHS Ratings:

Flammable liquid	2	Flash point < 23°C and initial boiling point > 35°C (95°F)
Oral Toxicity	Acute Tox. 2	Oral>5+<=50mg/kg
Dermal Toxicity	Acute Tox. 3	Dermal>200+<=1000mg/kg
Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation
Eye corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Skin sensitizer	1	Skin sensitizer
Mutagen	1B	Known to produce heritable mutations in human germ cells Subcategory 1B, Positive results: In vivo heritable germ cell tests in mammals, Human germ cell tests, In vivo somatic mutagenicity tests, combined with some evidence of germ cell mutagenicity
Carcinogen	1A	Known Human Carcinogen Based on human evidence
Reproductive toxin	1B	Presumed, Based on experimental animals
Aspiration hazard	1	Aspiration Toxicity Category 1: Known (regarded)- human evidence - hydrocarbons with kinematic viscosity ? 20.5 mm <sup>2</sup> /s at 40° C.

### GHS Hazards

H225	Highly flammable
H300	Fatal if swallowed
H304	May be fatal if swallowed and enters airways
H311	Toxic in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H340	May cause genetic defects
H350	May cause cancer
H360	May damage fertility or the unborn child

### GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P210	Keep away from heat/sparks/open flames/hot surfaces - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.

P264	Wash equipment and contaminated skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P321	Wash contaminated skin, follow Physician's instructions for treatment.
P322	Specific measures Remove contaminated clothing and protective equipment.
P330	Rinse mouth
P331	Do NOT induce vomiting
P361	Remove/Take off immediately all contaminated clothing
P362	Take off contaminated clothing and wash before reuse
P363	Wash contaminated clothing before reuse
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302+P352	IF ON SKIN: Wash with soap and water
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing . Rinse skin with water/shower
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P332+P313	If skin irritation occurs: Get medical advice/attention
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P337+P313	Get medical advice/attention
P370+P378	In case of fire: Use CO2, water spray, foam, or dry chemical to extinguish.
P405	Store locked up
P403+P235	Store in a well ventilated place. Keep cool
P501	Dispose of contents/container in accordance to appropriate regulations and laws.

**Signal Word: Danger**



**Section 3 : Composition / Information on Ingredients**

Chemical Name	CAS number	Weight Concentration %
Bisphenol A diglycidyl ether - bisphenol A copolymer	25036-25-3	23.00%
Silicon dioxides	14808-60-7	10.00% - 20.00%
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	25068-38-6	13.00%
Dimethyl carbonate	616-38-6	10.00%
Aromatic naphtha, type I	64742-95-6	7.00%
Methyl ethyl ketone	78-93-3	5.00%
Benzene, 1,2,4-trimethyl-	95-63-6	3.00%
Xylol	1330-20-7	2.00%
Hexone	108-10-1	2.00%
Benzene, ethyl-	100-41-4	0.90%
Naphtha, petroleum, hydrodesulfurized heavy	64742-82-1	0.10%
Stoddard solvent	8052-41-3	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 thoroughly before reuse.

Wash mouth out thoroughly. Do not induce vomiting unless directed by medical personnel. Get medical attention

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been inhaled or ingested.

#### Section 5: Fire Fighting Measures

Flash Point: 15 C (59 F)

LEL: 1.0%

UEL: 8.0%

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 breath 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
Bisphenol A diglycidyl ether - bisphenol A copolymer 25036-25-3	Not Established	Not Established	Not Established
Silicon dioxides 14808-60-7	.05 mg/m <sup>3</sup> TWA	0.025 mg/m <sup>3</sup> TWA (respirable fraction)	NIOSH: 0.05 mg/m <sup>3</sup> TWA (respirable dust)

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane 25068-38-6	Not Established	Not Established	Not Established
Dimethyl carbonate 616-38-6	Not Established	Not Established	Not Established
Aromatic naphtha, type I 64742-95-6	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
Benzene, 1,2,4-trimethyl- 95-63-6	Not Established	Not Established	NIOSH: 25 ppm TWA; 125 mg/m3 TWA
Xylol 1330-20-7	100 ppm TWA; 435 mg/m3 TWA	150 ppm STEL 100 ppm TWA	Not Established
Hexone 108-10-1	100 ppm TWA; 410 mg/m3 TWA	75 ppm STEL 20 ppm TWA	NIOSH: 50 ppm TWA; 205 mg/m3 TWA 75 ppm STEL; 300 mg/m3 STEL
Benzene, ethyl- 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, hydrodesulfurized heavy 64742-82-1	Not Established	Not Established	Not Established
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)

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 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.

<b>Section 9: Physical and Chemical Properties</b>
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<p><b>Explosive Limits:</b> NA</p> <p><b>Autoignition temperature:</b> NA</p> <p><b>Viscosity:</b> NA</p> <p><b>Appearance:</b> NA</p> <p><b>Vapor Pressure:</b> NA</p>	<p><b>Partition coefficient (n- NA octanol/water):</b></p> <p><b>Decomposition temperature:</b> NA</p> <p><b>Coating VOC Lb/Gal</b> 2.51</p> <p><b>Odor:</b> NA</p> <p><b>Odor threshold:</b> NA</p>
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<b>Vapor Density: NA</b> <b>DENSITY 10.20</b> <b>Freezing point: NA</b> <b>Boiling range: NA</b>	<b>pH: NA</b> <b>Melting point: NA</b> <b>Solubility: NA</b>
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### Section 10: Stability and Reactivity

These materials are stable. Under normal conditions of storage and use hazardous reactions or polymerization will not occur. Avoid all source of ignitions, sparks or flames. Do not allow vapor to accumulate in low lying areas.

STABLE

Do not expose to strong oxidizing agents, strong acids, or aliphatic amines.

Under normal use, no hazardous decomposition products are produced.

Hazardous polymerization will not occur.

### Section 11: Toxicological Information

#### Mixture Toxicity

Oral Toxicity LD50: 34mg/kg

Dermal Toxicity LD50: 432mg/kg

Inhalation Toxicity LC50: 226mg/L

Routes of Entry:

Exposure to this material may affect the following organs:

Blood System    Eyes    Kidneys    Liver    Lungs    Central Nervous System    Skin    Respiratory

#### 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>
100-41-4	Benzene, ethyl-	0.9	Benzene, ethyl-: IARC: Possible human carcinogen OSHA: listed
108-10-1	Hexone	2	Hexone: IARC: Possible human carcinogen OSHA: listed
64742-95-6	Aromatic naphtha, type I	7	Aromatic naphtha, type I: EU REACH: Present (P)
64742-82-1	Naphtha, petroleum, hydrodesulfurized heavy	0.1	Naphtha, petroleum, hydrodesulfurized heavy: EU REACH: Present (P)

14808-60-7	Silicon dioxides	10 to 20%	Silicon dioxides: NIOSH: potential occupational carcinogen IARC: Human carcinogen OSHA: listed
8052-41-3	Stoddard solvent	0.1	Stoddard solvent: EU REACH: Present (P)

This product can be a skin and eye sensitizer. The material should be washed from skin or flushed from eyes immediately. Contaminated clothing should be removed. Wear proper protective equipment. Any other acute toxicological information can be found in section 11.

Approximately 2% of the population can develop skin sensitivity with increasing inflammation and allergic reactions with repeated exposure.

## Section 12: Ecological

No known significant effects or critical hazards.

### Component Ecotoxicity

Aromatic naphtha, type I	96 Hr LC50 <i>Oncorhynchus mykiss</i> : 9.22 mg/L 48 Hr EC50 <i>Daphnia magna</i> : 6.14 mg/L
Methyl ethyl ketone	96 Hr LC50 <i>Pimephales promelas</i> : 3130 - 3320 mg/L [flow-through] 48 Hr EC50 <i>Daphnia magna</i> : >520 mg/L; 48 Hr EC50 <i>Daphnia magna</i> : 5091 mg/L; 48 Hr EC50 <i>Daphnia magna</i> : 4025 - 6440 mg/L [Static]
Benzene, 1,2,4-trimethyl-	96 Hr LC50 <i>Pimephales promelas</i> : 7.19 - 8.28 mg/L [flow-through] 48 Hr EC50 <i>Daphnia magna</i> : 6.14 mg/L
Xylol	96 Hr LC50 <i>Pimephales promelas</i> : 13.4 mg/L [flow-through]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 2.661 - 4.093 mg/L [static]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 13.5 - 17.3 mg/L; 96 Hr LC50 <i>Lepomis macrochirus</i> : 13.1 - 16.5 mg/L [flow-through]; 96 Hr LC50 <i>Lepomis macrochirus</i> : 19 mg/L; 96 Hr LC50 <i>Lepomis macrochirus</i> : 7.711 - 9.591 mg/L [static]; 96 Hr LC50 <i>Pimephales promelas</i> : 23.53 - 29.97 mg/L [static]; 96 Hr LC50 <i>Cyprinus carpio</i> : 780 mg/L [semi-static]; 96 Hr LC50 <i>Cyprinus carpio</i> : >780 mg/L; 96 Hr LC50 <i>Poecilia reticulata</i> : 30.26 - 40.75 mg/L [static] 48 Hr EC50 water flea: 3.82 mg/L; 48 Hr LC50 <i>Gammarus lacustris</i> : 0.6 mg/L
Hexone	96 Hr LC50 <i>Pimephales promelas</i> : 496 - 514 mg/L [flow-through] 48 Hr EC50 <i>Daphnia magna</i> : 170 mg/L 96 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : 400 mg/L
Benzene, ethyl-	96 Hr LC50 <i>Oncorhynchus mykiss</i> : 11.0 - 18.0 mg/L [static]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 4.2 mg/L [semi-static]; 96 Hr LC50 <i>Pimephales promelas</i> : 7.55 - 11 mg/L [flow-through]; 96 Hr LC50 <i>Lepomis macrochirus</i> : 32 mg/L [static]; 96 Hr LC50 <i>Pimephales promelas</i> : 9.1 - 15.6 mg/L [static]; 96 Hr LC50 <i>Poecilia reticulata</i> : 9.6 mg/L [static] 48 Hr EC50 <i>Daphnia magna</i> : 1.8 - 2.4 mg/L 72 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : 4.6 mg/L; 96 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : >438 mg/L; 72 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : 2.6 - 11.3 mg/L [static]; 96 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : 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 and legislation.

## Section 14: Transport Information

