



# MATERIAL SAFETY DATA SHEET

Issue Date 14-Mar-2012

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Version 1

## 1. IDENTIFICATION

**Product Name** PC Marine Epoxy Putty

**MSDS #** 130606-26-CA

**Recommended Use** Adhesives

### Supplier Address

Protective Coatings Co.  
221 S Third St.  
Allentown, PA 18102 USA

### **Company Phone Number**

610-432-3543 / 800-220-2103

### **Emergency Telephone (24 hr)**

INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. Hazards Identification

### EMERGENCY OVERVIEW

Causes serious eye irritation  
Causes skin irritation  
May cause an allergic skin reaction

**Appearance** Green stick

**Physical State** Solid.

**Odor** Mercaptan

### Potential Health Effects

#### Acute toxicity

##### Eyes

Causes serious eye irritation

##### Skin

Causes skin irritation

##### Inhalation

Under normal conditions of intended use, this material is not expected to be an inhalation hazard

##### Ingestion

May cause discomfort if swallowed

#### Chronic effects

No known effect based on information supplied

#### Symptoms

Causes eye irritation. Direct contact may cause temporary redness and discomfort. Causes skin irritation.

#### Aggravated Medical Conditions

None known

#### Environmental Hazard

See Section 12: ECOLOGICAL INFORMATION

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	weight-%
Titanium dioxide	13463-67-7	5-10
Bisphenol A - Epichlorohydrin polymer	25068-38-6	5-10
Crystalline silica	14808-60-7	0.1-1.0

Product contains a proprietary mixture of ingredients.

**4. FIRST-AID MEASURES**

<b>General Advice</b>	Provide this SDS to medical personnel for treatment.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician
<b>Skin Contact</b>	Wash with soap and water Remove and wash contaminated clothing before reuse Get medical attention if irritation occurs
<b>Inhalation</b>	Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician / poison center if individual's condition declines or if symptoms persist
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water Do not induce vomiting Never give anything by mouth to an unconscious person Seek medical advice
<b>Notes to Physician</b>	Skin and eye conditions may be aggravated by long term exposure

**5. FIRE-FIGHTING MEASURES**

<b>Flammable properties</b>	Not flammable
<b>Flash Point</b>	Not available
<b>Suitable Extinguishing Media</b>	Dry chemical, CO2 or water spray
<b>Hazardous Combustion Products</b>	Carbon monoxide, Carbon dioxide (CO2), Aldehydes, Acids, Oxides of sulfur and nitrogen may be formed
<b><u>Explosion data</u></b>	
<b>Sensitivity to Mechanical Impact</b>	None
<b>Sensitivity to Static Discharge</b>	None
<b>Specific hazards arising from the chemical</b>	Product is not flammable
<b>Protective equipment and precautions for firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear Wear positive pressure self-contained breathing apparatus (SCBA) Do not release runoff from fire control methods to sewers or waterways NFPA Class IIIB

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions</b>	Wear protective gloves/protective clothing and eye/face protection Avoid breathing vapors, mist or gas Remove any contaminated clothing and wash thoroughly before reuse
<b>Environmental Precautions</b>	See Section 12 for additional Ecological Information

<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so
<b>Methods for Cleaning Up</b>	Dispose of contents/container to an approved waste disposal plant

## 7. HANDLING AND STORAGE

<b>Advice on safe handling</b>	Handle in accordance with good industrial hygiene and safety practice Wear appropriate personal protective equipment Avoid breathing dust/fume/gas/mist/vapors/spray Do not eat, drink or smoke when using this product Wash face, hands, and any exposed skin thoroughly after handling Contaminated work clothing should not be allowed out of the workplace
<b>Storage Conditions</b>	Keep containers tightly closed in a dry, cool and well-ventilated place Store contents under <90F (32C) NFPA Class IIIB storage

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Exposure Guidelines</b>	The following information is given as general guidance
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Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 10 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup>
Crystalline silica 14808-60-7	TWA: 0.025 mg/m <sup>3</sup> respirable fraction	(vacated) TWA: 0.1 mg/m <sup>3</sup> respirable dust : (30)/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA total dust : (250)/(%SiO <sub>2</sub> + 5) mppcf TWA respirable fraction : (10)/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA respirable fraction	IDLH: 50 mg/m <sup>3</sup> respirable dust TWA: 0.05 mg/m <sup>3</sup> respirable dust

<b>Engineering Controls</b>	Provide general or local exhaust ventilation if product is sanded or ground
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### Personal protective equipment (PPE)

<b>Skin and Body Protection</b>	Chemical resistant protective gloves Wear suitable protective clothing
<b>Eye/Face Protection</b>	Chemical safety goggles/faceshield
<b>Respiratory Protection</b>	Ensure adequate ventilation, especially in confined areas If engineering controls do not keep airborne concentrations below acceptable levels, wear a NIOSH-approved respirator
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practice Do not eat, drink or smoke when using this product Wash contaminated clothing before reuse

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical State</b>	Solid	<b>Odor</b>	Mercaptan
<b>Appearance</b>	Green stick	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Green		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
<b>pH</b>	>8		
<b>Melting Point/Freezing Point</b>	Not determined		
<b>Boiling Point/Boiling Range</b>	Not determined		
<b>Flash Point</b>	Not available		

Evaporation Rate	Not determined	
Flammability (solid, gas)	Not determined	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Relative Density (Specific Gravity)	1.90 @ 4°C (39.2°F)	(1=Water)
Water Solubility	Insoluble in water	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Autoignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	
VOC Content (%)	<1%	

## 10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions
Incompatible Materials	None known based on information supplied
Conditions to Avoid	Keep out of reach of children
Hazardous Decomposition Products	None known based on information supplied
Possibility of Hazardous Reactions	None under normal processing
Hazardous Polymerization	Hazardous polymerization does not occur

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Product Information

Inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard
Eye Contact	Causes serious eye irritation
Skin Contact	Causes skin irritation
Ingestion	May cause discomfort if swallowed

#### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Titanium dioxide	> 10000 mg/kg ( Rat )		
Bisphenol A - Epichlorohydrin polymer	= 11400 mg/kg ( Rat )	20000 mg/kg (rabbit)	
Crystalline silica	= 500 mg/kg ( Rat )		

### Chronic toxicity

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested. Crystalline Silica is considered to be a human carcinogen when in respirable form (dust / powder) Titanium dioxide is a possible carcinogen when it appears as a respirable dust

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium dioxide		Group 2B		X
Crystalline silica	A2	Group 1	Known	X

**ACGIH (American Conference of Governmental Industrial Hygienists)**

A2 - Suspected Human Carcinogen

**IARC (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

**NTP (National Toxicology Program)**

Known - Known Carcinogen

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

**Sensitization** May cause an allergic skin reaction.

**Target organ effects** None known

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

## 13. DISPOSAL CONSIDERATIONS

**Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations

**Contaminated Packaging** Dispose of in accordance with federal, state and local regulations

## 14. TRANSPORT INFORMATION

**DOT** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

**TDG** Not regulated

## 15. REGULATORY INFORMATION

**International Inventories**

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Titanium dioxide	Present	X		Present		Present	X	Present	X	X
Bisphenol A - Epichlorohydrin polymer	Present	X				Present	X	Present	X	X
Crystalline silica	Present	X		Present		Present	X	Present	X	X

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances **IECSC**

- China Inventory of Existing Chemical Substances **KECL** -

Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

## US Federal Regulations

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard Categories

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

## US State Regulations

### California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
Titanium dioxide	Carcinogen
Crystalline silica	Carcinogen

## U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania
Titanium dioxide	X	X	X
Crystalline silica	X	X	X

## International Regulations

Chemical Name	Carcinogenicity	Exposure Limits
Titanium dioxide		Mexico: TWA 10 mg/m <sup>3</sup> Mexico: STEL 20 mg/m <sup>3</sup>
Crystalline silica		Mexico: TWA 0.1 mg/m <sup>3</sup>

## **CANADA**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

Class D, Div. 2



## 16. OTHER INFORMATION

NFPA  
HMIS

Health Hazards 1  
Health Hazards 1

Flammability 1  
Flammability 1

Stability 0  
Physical Hazards 0

Special Hazards -  
Personal Protection B-  
Safety Glasses, Gloves

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Revision Note New format

### Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**