

Material Safety Data Sheet



Issue Date 02-Jan-2013

Revision Date 23-Apr-2013

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name PC-11 Heavy Duty Epoxy Paste, part B

MSDS # 130205-21-CA

Recommended Use Multi-purpose epoxy paste

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 skin irritation
Severe eye irritation

Appearance Light blue paste

Physical State Paste.

Odor Slight amine

Potential health effects

Acute Toxicity

Eyes Causes severe eye irritation
Skin Causes skin irritation
Inhalation Irritating to respiratory system
Ingestion Harmful if swallowed

Chronic Effects None known

Symptoms May cause respiratory irritation. May cause skin and eye irritation. Ingestion may cause severe burns to mouth, throat or stomach.

Aggravated Medical Conditions None known

Environmental hazard See Section 12: ECOLOGICAL INFORMATION

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Phenol, methylstyrenated	68512-30-1	35-40
Talc	14807-96-6	25-30
Polyoxypropylenediamine	9046-10-0	10-15
Kaolin	1332-58-7	5-10
1-(2-Aminoethyl) piperazine	140-31-8	5-10
Formaldehyde, polymer with 1,3 dimethylbenzene	6422-86-2	1-5

Product contains a proprietary mixture of ingredients.

4. FIRST AID MEASURES

Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Get medical attention if necessary
Skin Contact	Wash with soap and water Remove and wash contaminated clothing before reuse Get medical attention if irritation occurs
Inhalation	Remove to fresh air If not breathing, give artificial respiration If breathing is difficult, give oxygen Get medical attention if necessary
Ingestion	Do NOT induce vomiting Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth Never give anything by mouth to an unconscious person
Note to Physicians	Skin and eye conditions may be aggravated by long term exposure

5. FIRE-FIGHTING MEASURES

Flammable properties	Not flammable
Flash Point	> 230 °F / > 110 °C
Suitable Extinguishing Media	Dry chemical, CO2 or water spray
Hazardous Combustion Products	Carbon monoxide Carbon dioxide (CO2) Aldehydes Nitrogen oxides (NOx)
Explosion Data	
Sensitivity to Mechanical Impact	None
Sensitivity to Static Discharge	None
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear Do not release runoff from fire control methods to sewers or waterways NFPA Class IIIB

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear protective gloves/protective clothing and eye/face protection Remove any contaminated clothing and wash thoroughly before reuse
Environmental Precautions	See Section 12 for additional ecological information
Methods for Containment	Prevent further leakage or spillage if safe to do so
Methods for Cleaning Up	Dispose of contents/container to an approved waste disposal plant

7. HANDLING AND STORAGE

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice Do not breathe dust/fume/gas/mist/vapors/spray Wear appropriate personal protective equipment Wash face, hands, and any exposed skin thoroughly after handling Contaminated work clothing should not be allowed out of the workplace Do not eat, drink or smoke when using this product

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place Store locked up

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Talc 14807-96-6	TWA: 2 mg/m ³ particulate matter containing no asbestos and <1% crystalline silica, respirable fraction	(vacated) TWA: 2 mg/m ³ respirable dust <1% Crystalline silica, containing no Asbestos TWA: 20 mppcf if 1% Quartz or more, use Quartz limit	IDLH: 1000 mg/m ³ TWA: 2 mg/m ³ containing no Asbestos and <1% Quartz respirable dust
Kaolin 1332-58-7	TWA: 2 mg/m ³ particulate matter containing no asbestos and <1% crystalline silica, respirable fraction	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 10 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust

Engineering Controls Provide general or local exhaust ventilation if product is sanded or ground

Personal protective equipment (PPE)

Skin and Body Protection Wear protective gloves and protective clothing

Eye/Face Protection Chemical safety goggles/faceshield

Respiratory Protection Ensure adequate ventilation, especially in confined areas If engineering controls do not maintain airborne concentrations below recommended exposure limits, a NIOSH/MSHA approved respirator must be worn

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice After use, wash hands and exposed skin with soap and water. Do not eat, drink or smoke while handling product

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Paste	Odor	Slight amine
Appearance	Light blue paste	Odor Threshold	Not determined
Color	light blue		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not determined	
Melting Point/Freezing Point	Not available	
Boiling Point/Boiling Range	Not available	
Flash Point	> 110 °C / > 230 °F	
Evaporation Rate	0	
Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	Not available	

Lower Flammability Limit	Not available
Vapor Pressure	0
Vapor Density	Not available
Relative Density (Specific Gravity)	1.01
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	5-10 million cps
Explosive Properties	Not determined
Oxidizing Properties	Not determined

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	May cause irritation of respiratory tract
Eye Contact	Causes severe eye irritation
Skin Contact	Causes skin irritation
Ingestion	Ingestion may cause irritation to mucous membranes

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Phenol, methylstyrenated	3600 mg/kg (rat)	>2000 mg/kg (rabbit)	
Polyoxypropylenediamine	= 1100 mg/kg (Rat)	= 1555 mg/kg (Rabbit)	
1-(2-Aminoethyl) piperazine	= 2140 mg/kg (Rat)	= 880 mg/kg (Rabbit)	
Formaldehyde, polymer with 1,3 dimethylbenzene	20000 mg/kg (rat)		

Chronic Toxicity

Chronic Toxicity None known

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical Name	ACGIH	IARC	NTP	OSHA
Talc		Group 3		

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

Sensitization	Not determined.
Germ Cell Mutagenicity	Not determined.
Reproductive Toxicity	Not determined
Developmental Toxicity	Not determined
Teratogenicity	Not determined
Target Organ Effects	Not determined

12. ECOLOGICAL INFORMATION**Ecotoxicity**

The environmental impact of this product has not been fully investigated

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Talc		100: 96 h Brachydanio rerio g/L LC50 semi-static	
1-(2-Aminoethyl) piperazine	495: 72 h Pseudokirchneriella subcapitata mg/L EC50	1950 - 2460: 96 h Pimephales promelas mg/L LC50 flow-through 1000: 96 h Poecilia reticulata mg/L LC50 semi-static 100: 96 h Oncorhynchus mykiss mg/L LC50 semi-static	32: 48 h Daphnia magna mg/L EC50
Chemical Name	Partition Coefficient		
1-(2-Aminoethyl) piperazine	-1.48		

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations
Contaminated Packaging	Do not reuse container

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

Phenol, methylstyrenated	Present	X		Present			X			X
Talc	Present	X		Present		Present	X	Present	X	X
Polyoxypropylenediamine	Present	X				Present	X	Present	X	X
Kaolin	Present	X		Present		Present	X	Present	X	X
1-(2-Aminoethyl) piperazine	Present	X		Present		Present	X	Present	X	X
Formaldehyde, polymer with 1,3 dimethylbenzene	Present	X		Present		Present	X	Present	X	X

DSL/NDSL - 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

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	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 does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania
Talc	X	X	X
Kaolin	X	X	X
1-(2-Aminoethyl) piperazine	X	X	X

International Regulations

Chemical Name	Carcinogenicity	Exposure Limits
Talc		Mexico: TWA 2 mg/m ³

Kaolin		Mexico: TWA 10 mg/m ³ Mexico: STEL 20 mg/m ³
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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	Health Hazards 2	Flammability 1	Stability 0	Special Hazards -
HMIS	Health Hazards 2	Flammability 1	Physical Hazards 0	Personal Protection -

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

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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