



Material Safety Data Sheet

**CHEMTREC Transportation
Emergency Phone: 800-
424-9300**

**Pittsburgh Poison Control
Center
Health Emergency No.: 412-
681-6669**

•NOTE: The CHEMTREC Transportation
•Emergency Phone is to be used only in the
•event of chemical emergencies involving a
•spill, leak, fire, exposure or accident
•involving chemicals

Section 1 - Chemical Product / Company Information

Product Name: CARBOGUARD 1207 PART A **Revision Date:** 08/01/2008
Identification Number: PLMSDS 0941A1NL **Supercedes :** 08/01/2005
Product Use/Class: Polyamido-Amine Epoxy - FOR INDUSTRIAL USE ONLY
Preparer: Regulatory, Department
Manufacturer: Carboline Company
350 Hanley Industrial Ct.
St. Louis, MO 63144

Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA-CEIL
EPOXY RESIN	25068-38-6	65.0	NE	NE	NE	NE
EPOXY RESIN	30499-70-8	10.0	NE	N/E	NE	NE
SILICA AMORPHOUS	67762-90-7	5.0	10 MG/M3, INHALABLE	N/E	6 MG/M3	N/E
AROMATIC SOLVENT	64742-95-6	5.0	25PPM	N/E	NE	NE
CARBON BLACK	1333-86-4	5.0	N/E	N/E	N/E	N/E

Section 3 - Hazards Identification

Emergency Overview: Warning! May cause allergic skin reactions. May cause irritation.

Effects Of Overexposure - Eye Contact: May cause eye irritation.

Effects Of Overexposure - Skin Contact: May cause allergic skin reaction. May cause skin irritation.

Effects Of Overexposure - Inhalation: Harmful if inhaled, may affect the brain or nervous system, causing dizziness, headache, or nausea. May cause nose and throat irritation.

Effects Of Overexposure - Ingestion: Harmful if swallowed.

Effects Of Overexposure - Chronic Hazards: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Ingestion, Eye Contact

Medical Conditions Prone to Aggravation by Exposure: If sensitized to amines, epoxies, or other chemicals do not use. See a physician if a medical condition exists.

Section 4 - First Aid Measures

First Aid - Eye Contact: If material gets into eyes, flush with water immediately for 15 minutes. Consult a physician.

First Aid - Skin Contact: In case of contact, wash skin immediately with soap and water.

First Aid - Inhalation: If inhaled, remove to fresh air. Administer oxygen if necessary. Consult a physician if symptoms persist or exposure was severe.

First Aid - Ingestion: If swallowed do not induce vomiting. Seek immediate medical attention.

Section 5 - Fire Fighting Measures

Flash Point, F: 175F (79C)
(Setaflash)

Lower Explosive Limit, %: 1.0
Upper Explosive Limit, %: 7.0

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: No Information.

Special Firefighting Procedures: USE WATER WITH CAUTION. Water may be ineffective in fighting the fire. Material will float and may ignite on the surface of the water. The fire could easily be spread by the use of water in an area where the water could not be contained.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: No Information.

Section 7 - Handling And Storage

Handling: Avoid breathing vapors or spray mist. Do not get in eyes, on skin, or on clothing. Keep container tightly closed when not in use. Wear personal protection equipment. Do not breathe vapors. Wash thoroughly after handling. If pouring or transferring materials, ground all containers and tools. Do not weld, heat, cut or drill on full or empty containers. Use only in accordance with Carboline application instructions, container label and Product Data Sheet.

Storage: No Information.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Use explosion-proof ventilation when required to keep below health exposure guidelines and Lower Explosion Limit (LEL).

Respiratory Protection: Use only with ventilation to keep levels below exposure guidelines listed in Section 2. User should test and monitor exposure levels to ensure all personnel are below guidelines. If not sure, or not able to monitor, use MSHA/NIOSH approved supplied air respirator. Follow all current OSHA requirements for respirator use. For silica containing coatings in a liquid state, and/or if no exposure limits are established in Section 2 above, supplied air respirators are generally not required.

Skin Protection: Recommend impervious gloves and clothing to avoid skin contact. If material penetrates to skin, change gloves and clothing. The use of protective creams may be beneficial to certain individuals. Protective creams should be applied before exposure.

Eye Protection: Recommend safety glasses with side shields or chemical goggles to avoid eye contact.

Other protective equipment: Eye wash and safety showers should be readily available.

Hygienic Practices: Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Use of a hand cleaner is recommended. Launder contaminated clothing before reuse. Leather shoes can absorb and allow hazardous materials to pass through. Check shoes carefully after soaking before reuse.

Section 9 - Physical And Chemical Properties

Boiling Range:	149 F (65 C) - 400 F (204 C)	Vapor Density:	Heavier than Air
Odor:	Epoxy	Odor Threshold:	N/D
Appearance:	Viscous Grey or Black Liquid	Evaporation Rate:	Slower Than Ether
Solubility in H2O:	N/D		
Freeze Point:	N/D	Specific Gravity:	1.19
Vapor Pressure:	N/D	PH:	N/D
Physical State:	Liquid		

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: No Information.

Incompatibility: Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, nitrogen oxides, and unidentified organic compounds. Consider all smoke and fumes from burning material as very hazardous. Welding, cutting or abrasive grinding can create smoke and fumes. Do not breathe any fumes or smoke from these operations.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

Section 11 - Toxicological Information

Product LD50: N/D

Product LC50: N/D

Chemical Name	CAS Number	LD50	LC50
EPOXY RESIN	25068-38-6	11.4G/KG RAT,ORAL	>20ML/KG SKIN,SENSITIZER
EPOXY RESIN	30499-70-8	NOT AVAILABLE	NOT AVAILABLE
SILICA AMORPHOUS	67762-90-7	> 5000 MG/KG, ORAL , RAT	NOT AVAILABLE
AROMATIC SOLVENT	64742-95-6	4700MG/KG RAT,ORAL	3670PPM/8HRS RAT,INHALATION
CARBON BLACK	1333-86-4	NOT AVAILABLE	NOT AVAILABLE

Section 12 - Ecological Information

Ecological Information: MOVEMENT AND PARTITIONING: Based on information for Diglycidyl ether of Bisphenol A. Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5). Potential for mobility in soil is low (Koc between 500 and 2000).

Henry's law Constant (H): <6.94E-09 atm*m3/mole; 25 C Estimated

Partition coefficient, soil organic carbon/water (Koc): 1,800 - 4,400 Estimated

DEGRADATION AND PERSISTENCE: Based on information for Diglycidyl ether of Bisphenol A.:

Biodegradation under aerobic laboratory conditions is below detectable limits (BOD20 or BOD28/ThOD < 2.5%).

Indirect Photodegradation with OH radicals:

Rate Constant: 6.69E - 11 cm3/s

Atmospheric Half-life: 1.92h

Method: Estimated

OECD Biodegradation Tests:

Biodegradation: 12%

Exposure time: 28 d

Method : OECD 302B Test

Theoretical Oxygen Demand: 2.35 mg/mg

ECOTOXICITY: Based on information for Diglycidyl ether of Bisphenol A. Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in most sensitive species tested. Toxicity to aquatic species occurs at concentrations above material's water solubility.

Fish and Acute Prolonged Toxicity: LC50, fathead minnow (*Pimephales promelas*), 96 h: 3.1 mg/l
Aquatic Invertebrate Acute Toxicity: EC50, water flea *Daphnia magna*, 40h, immobilization: 1.4 - 1.7 mg/l
Toxicity to Micro-organisms: LC50; bacteria, Growth inhibition, 18 h: >42.6 mg/l

Section 13 - Disposal Information

Disposal Information: Dispose of in accordance with State, Local, and Federal Environmental regulations. Responsibility for proper waste disposal is with the owner of the waste.

Section 14 - Transportation Information

DOT Proper Shipping Name:	Not Regulated	Packing Group:	N/A
DOT Technical Name:	N/A	Hazard Subclass:	N/A
DOT Hazard Class:	None	Resp. Guide Page:	N/A
DOT UN/NA Number:	N/A		

Additional Notes: None.

Section 15 - Regulatory Information

CERCLA - SARA HAZARD CATEGORY

This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD

SARA SECTION 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

No Section 313 Substances exist in this product

TOXIC SUBSTANCES CONTROL ACT

All components of this product are listed on the TSCA inventory.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(B) Substances exist in this product

U.S. STATE REGULATIONS AS FOLLOWS:

NEW JERSEY RIGHT-TO-KNOW

The following materials are non-hazardous, but are among the top five components in this product.

Chemical Name	CAS Number
ALIPHATIC GLYCIDYL ETHER	74398-71-3
TITANIUM DIOXIDE	13463-67-7

PENNSYLVANIA RIGHT-TO-KNOW

The following non-hazardous ingredients are present in the product at greater than 3%.

Chemical Name
ALIPHATIC GLYCIDYL ETHER
TITANIUM DIOXIDE

CAS Number
74398-71-3
13463-67-7

CALIFORNIA PROPOSITION 65

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

Chemical Name
CARBON BLACK
EPICHLOROHYDRIN

CAS Number
1333-86-4
106-89-8

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards:

Chemical Name
EPICHLOROHYDRIN

CAS Number
106-89-8

INTERNATIONAL REGULATIONS AS FOLLOWS:

CANADIAN WHMIS

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: B3 D2B

Section 16 - Other Information

HMIS Ratings

Health: 2

Flammability: 2

Reactivity: 0

Personal Protection: X

VOLATILE ORGANIC COMPOUNDS, GR/LTR MIXED (UNTHINNED): 0.12

REASON FOR REVISION: Routine Update

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained herein is, to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations