

SAFTEY DATA SHEET

Product Name: Resinate Epoxy Hardener Part B

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Resinate Epoxy Resin Part B
SYNONYMS: Blend of Phenols and Amines
PRODUCT USE / CLASS: Epoxy Coating

MANUFACTURER: PSC Polymer Science Corporation
ADDRESS: #1133, 6027 – 79 Avenue S.E., Calgary, Alberta, Canada T2C 5P1
TELEPHONE: (403) 287 - 2751 **FAX:** (403) 287-2766
Web: www.polymersciencecorp.com

IN CASE OF AN EMERGENCY CALL: CANUTEC at (613) 996-6666 (24 hours)

SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

CLEARGUARD / HARDENER

HAZARDOUS INGREDIENTS

	C.A.S.#	WEIGHT %
Nonylphenol	84852153	30 – 70
Polyoxyalkyleneamine	90-46-100	30 – 50
N-Aminoethylpiperazine	140-31-8	5 – 25

SECTION 3: HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW ***:** Corrosive, Avoid direct contact with skin and eyes. Harmful or fatal if swallowed. Aspiration hazard if swallowed. May cause allergic skin reaction.

POTENTIAL HEALTH EFFECTS

EYE CONTACT: Causes irritation, experienced as pain, with excessive blinking and tear production, seen as marked excess redness and swelling with chemical burns of the eye. Severe eye damage may cause blindness.

SKIN CONTACT: Causes severe irritation with pain, severe excess redness and swelling with chemical burns, blister formation and possible tissue destruction.

INHALATION: Vapors or mists are irritating to the upper respiratory tract and cause nasal discharge, coughing and discomfort or pain in eyes, nose, throat and chest. Severe overexposure may result in difficulty breathing, headache, nausea, vomiting, and drowsiness. Prolonged or repeated exposure may result in permanent lung damage.

INGESTION: May cause gastrointestinal irritation. Causes burning of mouth, throat and stomach with abdominal and chest pain, nausea, vomiting, diarrhea, thirst, weakness and collapse. Aspiration may occur during swallowing or vomiting, resulting in lung damage.

GENERAL: Repeated skin contact may cause a persistent irritation or dermatitis. Repeated inhalation may cause lung damage.

WHMIS Symbols



SECTION 4: FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water for at least 15 minutes. Get immediate medical attention.

SKIN CONTACT: Immediately flush with large amounts of fresh water for at least 15 minutes. Get medical attention. Wash clothing before re-use. Destroy non-resistant footwear. If burn is present, treat as any thermal burn after decontamination.

INHALATION: Should symptoms develop, remove to fresh air. If victim is not breathing start artificial respiration. If breathing is difficult, or cyanosis is noted qualified personnel may administer oxygen. Get immediate medical attention.

INGESTION: Seek immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: Due to the corrosive nature of this material, swallowing may result in severe ulceration, inflammation, and possible perforation of the upper alimentary tract, with hemorrhage and fluid loss. Aspiration of this product during induced emesis can result in severe lung injury. Evacuation of stomach contents should be done by means least likely to cause aspiration.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: 154°F **LOWER EXPLOSIVE LIMIT:** N/A

FLASH POINT METHOD: Pensky-Martens Closed Cup **UPPER EXPLOSIVE LIMIT:** N/A

OSHA FLAMMABILITY CLASSIFICATION: N/A **AUTOIGNITION TEMPERATURE:** N/A

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or CO₂

FIRE FIGHTING PROCEDURES: Wear self-contained positive pressure breathing apparatus, (MSHA / NIOSH approved or equivalent) and full protective gear. Containers can build up pressure if exposed to heat. Cool with water spray. Water run-off can cause environmental damage. When possible dike and collect water used to fight fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Use personal protective equipment as described in Section 8. Absorb spills with inert material and place in a chemical waste container. Obey relevant local, state, provincial, and federal laws and regulations. Prevent runoff to sewers, streams, or other bodies of water. If runoff occurs, notify proper authorities as required. Avoid use of water; product is highly toxic to aquatic life.

SECTION 7: HANDLING AND STORAGE

HANDLING: Minimum feasible handling temperatures should be maintained. Periods of exposure to high temperatures should be minimized. Eye wash and safety shower should be available nearby when this product is handled or used. Ground and bond containers when transferring material. Follow all MSDS / label precautions even after container is emptied because it may retain product residue.

STORAGE: Keep away from heat, sparks, and open flame. Keep container closed when not in use. Supplied air respiratory protection for cleaning large spills or upon entry into tanks, vessels, or other confined spaces. Facilities storing or utilizing this material should be equipped with an eye wash facility and a safety shower.

SECTION 8: PERSONAL PROTECTION

EXPOSURE LIMITS:	VALUE	LIMIT	REFERENCE
Nonylphenol	N/A	TWA	OSHA / ACGIH
		STEL	OSHA / ACGIH
Polyoxyalkyleneamine	N/A	TWA	OSHA / ACGIH
		STEL	OSHA / ACGIH
Isophoronediamine	N/A	TWA	OSHA / ACGIH
		STEL	OSHA / ACGIH
N-Aminoethylpiperazine	N/A	TWA	OSHA / ACGIH
		STEL	OSHA / ACGIH

ENGINEERING CONTROLS: Use adequate ventilation
RESPIRATORY PROTECTION: Respiratory protection meeting OSHA 1910.134 and ANSI Z88.2 or applicable federal / provincial requirements must be followed whenever workplace conditions warrant a respirator use.
EYE PROTECTION: Use chemical splash goggles
SKIN PROTECTION: Use impermeable gloves
OTHER PROTECTIVE EQUIPMENT: Safety showers and eye wash fountain should be readily available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE:	< 1mm Hg @ 20°C	VISCOSITY:	N/A
VAPOR DENSITY:	N/A	VOC CONTENT (lbs./ gal)	0.0
BOILING POINT:	N/A	EVAPORATION RATE:	Slower than n-Butyl Acetate
pH:	N/A	SOLUBILITY IN WATER:	Soluble
SPECIFIC GRAVITY:	0.95 g/cm ³	OTHER PROPERTIES:	Clear liquid, amine odor

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions
HAZARDOUS POLYMERIZATION: Will not occur under normal conditions
CONDITIONS TO AVOID: High temperatures
INCOMPATIBILITY WITH OTHER MATERIALS: Oxidizing materials, acids, peroxides, aldehydes, ketones, halogenates organic compounds

SECTION 11: TOXICOLOGICAL PROPERTIES

CHEMICAL NAME	ORAL LD 50	DERMAL LD 50	INHALATION LC 50
N/A	N/A	N/A	N/A

SECTION 12: ECOLOGICAL INFORMATION

Prevent runoff to sewers, streams, or other bodies of water. If runoff occurs, notify proper authorities as required. Avoid use of water; product is highly toxic to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

Follow all MSDS / label precautions even after container is emptied because it may retain product residue. Empty containers and waste must be disposed in accordance with federal, state, provincial, and local regulations

SECTION 14: TRANSPORTATION INFORMATION

TECHNICAL SHIPPING NAME: Epoxy curing agent
HAZARD CLASS OR DIVISION: Corrosive liquids, N.O.S., (aliphatic amines), class 8, UN1760, PG III
TDG:
CLASSIFICATION:

SECTION 15: REGULATORY INFORMATION

CANADIAN WHMIS CLASSIFICATION: Class D, Division 2, SubDivision B. (Toxic Material), and Class E (Corrosive Material)

OSHA:	This document has been prepared in accordance with the MSDS requirements of the OSHA Hazard Communication Standard	
CLEAN AIR ACT SECTION 112:	This product contains the following components listed as Hazardous Air Pollutants:	None
	The products contain the following components listed as Extremely Hazardous Air Pollutants:	None
SARA SECTION 302:	The products contain the following components listed as Extremely Hazardous Substances:	None
SARA SECTION 311/312:	Hazard Classification:	Immediate (acute)
SARA SECTION 313:	The products contain the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Authorization Act of 1986 and 40 CFR Part 372:	None
TSCA:	The products or their components are listed in or exempt from the TSCA inventory requirements.	
	The products contain the following non-proprietary substances subject to export notification under Section 12(b) of TSCA:	None

SECTION 16: OTHER INFORMATION

The information is furnished without warranty, representation, inducement, license of any kind, except that it is accurate to the best of Resinate's knowledge or obtained from sources believed by Resinate to be accurate and Resinate does not assume any legal responsibility for use or reliance on same. Customers are encouraged to do their own tests before application.

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