

SAFETY DATA SHEET

Product Name: RESINATE PRO HARDENER (PART B)

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: RESINATE PRO HARDENER (PART B) **MANUFACTURER:** PSC Polymer Science Corporation
SYNONYMS: Isocyanate **ADDRESS:** #1133, 6027 – 79 Avenue S.E., Calgary, Alberta, Canada T2C 5P1
PRODUCT USE / CLASS: Coating **TELEPHONE:** (403) 287 - 2751 **FAX:** (403) 287-2766
Web: www.polymersciencecorp.com

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

SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

POLYASPARTIC / HARDENER
HAZARDOUS INGREDIENTS

	C.A.S.#	WEIGHT %
Hexamethylene Diisocyanate Homopolymer	28182-81-2	20-100

SECTION 3: HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYE CONTACT: May cause irritation, tearing, reddening and swelling. Can cause corneal injury.
SKIN CONTACT: May cause irritation and allergic reactions. Potential sensitizer
INHALATION: Vapors and mists can irritate the respiratory tract causing cough, discomfort and difficulty to breathe.
INGESTION: Harmful if swallowed, cause irritation.
GENERAL: Chronic exposure will sensitize certain individuals. Once this happen, they will experience symptoms when exposed to dust, cold air etc. Symptoms include coughing, wheezing, shortness of breath and chest tightness.

WHMIS Symbols



SECTION 4: FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water for at least 15 minutes. Get medical attention, if irritation persists.
SKIN CONTACT: Wash with soap and water, remove contaminated clothing. Clean thoroughly clothing before reuse. Get medical attention if irritation persists.
INHALATION: Should symptoms develop, remove victim to fresh air. If breathing is difficult, qualified personnel may administer oxygen. If victim is not breathing start artificial respiration. Get medical attention.
INGESTION: Rinse mouth with plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed by a physician. Get medical attention.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT:	Approx. 170 °C	LOWER EXPLOSIVE LIMIT:	N/A
FLASH POINT METHOD:	TCC	UPPER EXPLOSIVE LIMIT:	N/A
OSHA FLAMMABILITY CLASSIFICATION:	N/A	AUTOIGNITION TEMPERATURE:	Approx 430 °C

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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Use personal protective equipment as described in Section 8. Remove sources of ignition and evacuate unnecessary personnel. Absorb spills with inert material and place in a chemical waste container, do not seal this container, allow pressure relief. Make a decontamination solution with isopropanol (50%), water (45%) and concentrated ammonia (5%). Place this solution over the contaminated area, leave it for 1 hour. Remove it using inert absorbent material.. Prevent runoff into drains and waterways. Ventilate area, keep unauthorized people away. Obey relevant local, state, provincial, and federal laws and regulations.

SECTION 7: HANDLING AND STORAGE

HANDLING: Avoid all personal contact and breathing vapours. Keep container closed when not in use. Use personal protective equipment as described in Section 8. Use adequate ventilation. For industrial use only. Wash thoroughly after handling.
STORAGE: Keep away from heat and in a dry place. Material may absorb moisture from the air. Keep containers tightly closed.

SECTION 8: PERSONAL PROTECTION

EXPOSURE LIMITS:	VALUE	LIMIT	REFERENCE
Hexamethylene Diisocyanate Homopolymer.	1 mg/m ³	TWA	OSHA / ACGIH

ENGINEERING CONTROLS: Use adequate ventilation
RESPIRATORY PROTECTION: Avoid breathing vapors. Wear proper respiratory equipment (MSHA/OSHA approved) in case of poor ventilation. Applicable federal / provincial requirements must be followed whenever workplace conditions warrant a respirator use, for example spraying, or using the product in conditions of limited ventilation.
EYE PROTECTION: Use chemical splash goggles or full face protection if splash hazardal
SKIN PROTECTION: Use impermeable chemical gloves like butyl rubber or nitrile rubber
OTHER PROTECTIVE EQUIPMENT: Wear protective apron or wear long sleeves and trousers, if splashing or repeated contact is likely, safety

boots, have eye bath and safety shower near. Wash hands before eating.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE:	12 mmHg @ 50° C	VISCOSITY:	1000 cP
VAPOR DENSITY:	N/A	VOC CONTENT (lbs / gal)	0.0
BOILING POINT:	220 °C @ 760 mmHg	EVAPORATION RATE:	Not available
pH:	N/A	SOLUBILITY IN WATER:	Reacts with water
SPECIFIC GRAVITY:	1.08	OTHER PROPERTIES:	Clear, slightly yellow liquid

SECTION 10: STABILITY AND REACTIVITY

STABILITY:	Stable under normal conditions
HAZARDOUS POLYMERIZATION:	Will not occur under normal conditions
CONDITIONS TO AVOID:	High temperatures, open flame, sources of ignition, and moisture.
INCOMPATIBILITY WITH OTHER MATERIALS:	Water, strong acids and bases, oxidizer, alcohols and amines.

SECTION 11: TOXICOLOGICAL PROPERTIES

CHEMICAL NAME	ORAL LD 50	DERMAL LD 50	INHALATION LC 50
Homopolymer of HDI	5000 mg/kg	5000 mg/kg	450 mg/m3 (rat)

SECTION 12: ECOLOGICAL INFORMATION

Not readily biodegradable,

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:	Hexamethylene Diisocyanate
HAZARD CLASS OR DIVISION:	9 Environmentally Hazardous Substance, Liquid N.O.S.
TDG:	UN 3082 Packing Group III
CLASSIFICATION:	Class 9

SECTION 15: REGULATORY INFORMATION

CANADIAN WHMIS CLASSIFICATION: Class D Division 2 Subdivision B (Toxic Material)

SECTION 16: OTHER INFORMATION

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