

Section 1. Product and Company Identification

Product Name	PRECIDIUM™ Epoxy 41P Primer Part 'B' (Hardener)
Manufacturer	Quantum Technical Services Ltd. (Db a Quantum Chemical) 15 Riel Drive St. Albert, AB, Canada T8N 3Z2 Tel: (780) 458-3355 (non-emergency phone number) Fax: (780) 458-2852 www.quantumchemical.com
Chemical Emergencies	For 24-Hour Emergency call Canutec at 613.996.6666

Section 2. Hazards Identification

2.1 Classification:

GHS Classification:	Respiratory Sensitizer	Category 1
	Skin Sensitizer	Category 1

2.2 Label Elements:

Pictogram:



Signal Word: **Danger**

Hazard Statements: **H334** May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.

Precautionary Statements: **P261** Avoid breathing dust/fume/gas/mist/vapor/spray.
P280 Wear protective gloves.
P284 [In case of inadequate ventilation] wear respiratory protection.
P264 Wash face, hands and any exposed skin thoroughly after handling.
P273 Avoid release to the environment.

Response: **P342+P311** If experiencing respiratory symptoms: Call a poison center/Doctor.
P302+P350 IF ON SKIN: Gently wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P361+P364 Take off immediately all contaminated clothing and wash it before reuse.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.

Disposal: **P501** Dispose of contents/containers in accordance with local/regional/national/ international regulations.

Section 3. Composition and Ingredient Information

Hazardous Ingredients	%	C.A.S. #
Ethylenediamine	0.1-1.0	107-15-3

Note: Concentration ranges are given to protect proprietary information.

Section 4. First Aid Measures

Inhalation:	Supply fresh air, consult a Doctor In case of unconsciousness place patient stably in side position for transportation.
Eye Contact:	Immediately flush eyes with running water for a minimum of 15 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Obtain medical attention IMMEDIATELY.
Skin Contact:	Remove contaminated clothing. Wash affected areas thoroughly with plenty of soap and water. If irritation, redness or a burning sensation develops and persists, obtain medical advice. Contaminated clothing should be thoroughly cleaned before reuse.
Ingestion:	If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.
NOTE to Physician:	No specific measures have been identified.

Section 5. Fire Fighting Measures

Extinguishing Media:	Carbon dioxide, dry chemical, water spray or fog.
Unsuitable Extinguishing Media:	Full water jet.
Special Protective Equipment and Precautions for Firefighters:	Firefighters must wear full protective equipment including self-contained breathing apparatus with chemical protection clothing.
Special Hazards:	Keep containers cool by spraying with water if exposed to fire.

Section 6. Accidental Release Measures

Personal Precautions:	In case of brief exposure or low level pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. Ensure good ventilation/exhaustion at the worksite. Wear protective gloves and eye protection (goggles recommended). Wear protective work clothing.
Method for Cleaning Up:	Cover spills with some inert absorbent material, sweep up and place in a waste disposal container. Flush spill area with water.
Environmental Precautions:	Avoid release to environment.

Section 7. Handling and Storage

Handling:	Precautions: Avoid release to environment. Wash hands thoroughly after handling.
Special Handling Statements:	Provide good ventilation of working area.
Storage Needs:	Store in a cool dry, well ventilated space and keep container tightly closed.

Section 8. Exposure Controls and Personal Protection

Components with exposure limit values.

Ethylenediamine	107-15-3	PEL Long Term Value: 25 mg/m ³ , 10 ppm REL Long Term Value: 25 mg/m ³ , 10 ppm TLV Long Term Value: 25 mg/m ³ , 10 ppm
Protective Equipment:		
Eye:		Safety spectacles. If there is a potential for splashing, use goggles or a full face shield.
Respiratory:		Recommended: Respirator with organic vapour cartridge for brief exposure. For intensive or longer exposure use a supplied air system.
Gloves:		Wear impermeable protective gloves.
Clothing:		Protective clothing should be selected and used in accordance with "Guidelines for the Selection of Chemical Protective Clothing" published by ACGIH.
Other/Type:		Eyewash fountain. Emergency shower should be in close proximity.
Ventilation Requirements:		Good enclosure and local exhaust ventilation should be provided to control exposure.

Section 9. Physical and Chemical Properties

Physical State:	Liquid.
Odor and Appearance:	Whitish, slight amine smell.
Specific Gravity (H ₂ O=1):	1.02 (at 25°C).
Odor Threshold (ppm):	Not available.
Vapor Pressure (mm Hg):	Not available.
Vapor Density (Air=1):	Not available.
Evaporation Rate:	Not applicable.
pH:	Not Available
Solubility in Water:	Soluble.
Coefficient of Water/Oil:	Not available.
Flash Point:	> 100°C.
% Solids:	32 %.

Section 10. Stability and Reactivity

Stability:	Stable.
Conditions to Avoid:	No further relevant information available.
Incompatibility:	No further relevant information available
Reactivity Conditions:	N/A
Hazardous products of Decomposition:	No dangerous decomposition products known.

Section 11. Toxicological Information

Ethylenediamine

Acute Toxicity:	Oral	LD50 (rat)	866 mg/kg
	Dermal	LD50 (rabbit)	560 mg/kg
	Inhalation	LC50 (4-hour) (rat)	= 14.7 mg/l

Local Effects on Skin and Eye

Acute Irritation: Dermal: not irritating. Eye: not irritating.

Sensitization: Sensitization possible through inhalation. Sensitization possible through skin contact.

Carcinogenicity: IARC: None of the Ingredients are listed.
NTP: None of the Ingredients are listed.
OSHA-Ca: None of the Ingredients are listed.

Specific Target Organ Toxicity: No data.

Section 12. Ecological Information

Overall Environmental Toxicity: No further relevant information available.

Water hazard class 1 (self assessment) slightly hazardous for water, do not allow undiluted product or large quantities of it to reach ground water, water course, or sewage system.

Section 13. Disposal Considerations

Waste Disposal: The generation of waste should be avoided or minimized wherever possible. Disposal should be in accordance with federal, provincial and municipal regulations.

Section 14. Transport Information

TDG: Not Hazardous for Transport.

DOT, IMDG, IATA: Not Hazardous for Transport.

Section 15. Regulatory Information

Canada: DSL: One or more components of this product are NOT included on the Canadian Domestic Substances List.

USA: TSCA: Not all ingredients are listed.

SARA: Section 355 (Extremely Hazardous Substances) Ethylenediamine (107-15-3)
Section 313 (Specific Toxic Chemical Listings) Sodium Nitrite (7632-00-0)
Section 311/312 Sodium Nitrite (7632-00-0)

Proposition 65: Chemicals known to cause cancer: No ingredients are listed.
Chemicals known to cause reproductive toxicity for females: No ingredients are listed.
Chemicals known to cause reproductive toxicity for males: No ingredients are listed.
Chemicals known to cause developmental toxicity: No ingredients are listed.

Carcinogenic Categories:

EPA: Ethylenediamine	107-15-3	D	TLV	[TLV established by ACGIH]
Ethylenediamine	107-15-3	A4	NIOSH-Ca	No ingredients are listed
IARC: Sodium Nitrite	7632-00-0	2A		

Section 16. Other Information

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