

## Section 1. Product and Company Identification

Product Name	<b>PRECIDIUM™ Epoxy 41P Primer ‘B’ (Hardener)</b>
Manufacturer	Quantum Technical Services Ltd. (Dba Quantum Chemical) 15 Riel Drive St. Albert, AB, Canada T8N 3Z2 Tel: (780) 458-3355 (non-emergency phone number) Fax: (780) 458-2852 <a href="http://www.quantumchemical.com">www.quantumchemical.com</a>
Chemical Emergencies	For 24-Hour Emergency call Canutec at 613.996.6666

## Section 2. Hazards Identification

### 2.1 Classification

<b>GHS Classification</b>	
<b>Respiratory Sensitizer</b>	<b>Category 1</b>
<b>Skin Sensitizer</b>	<b>Category 1</b>

### 2.2 Label Elements

#### Pictogram



<b>Signal Word</b>	<b>Danger</b>
<b>Hazard Statements</b>	<b>H334</b> May cause allergy or asthma symptoms or breathing difficulties if inhaled. <b>H317</b> May cause an allergic skin reaction
<b>Precautionary Statements</b>	<b>P261</b> Avoid breathing dust/fume/gas/mist/vapor/spray <b>P280</b> Wear protective gloves. <b>P284</b> [In case of inadequate ventilation] wear respiratory protection. <b>P264</b> Wash face, hands and any exposed skin thoroughly after handling. <b>P273</b> Avoid release to the environment.
<b>Response</b>	<b>P342+P311</b> If experiencing respiratory symptoms: Call a poison center/Doctor. <b>P302+P350</b> IF ON SKIN: Gently wash with plenty of soap and water. <b>P333+P313</b> If skin irritation or rash occurs: Get medical advice/attention. <b>P361+P364</b> Take off immediately all contaminated clothing and wash it before reuse. <b>P305+P351+P338</b> IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. <b>P337+P313</b> If eye irritation persists: Get medical advice/attention.
<b>Disposal</b>	<b>P501</b> 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.	Fire fighters 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 <sup>3</sup> , 10 ppm REL Long Term Value: 25 mg/m <sup>3</sup> , 10 ppm TLV Long Term Value: 25 mg/m <sup>3</sup> , 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 <sub>2</sub> 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

<b>Ethylenediamine</b>	
Acute Toxicity	Oral LD <sub>50</sub> (rat) 866 mg/kg Dermal LD <sub>50</sub> (rabbit) 560 mg/kg Inhalation LC <sub>50</sub> (4 Hr.) (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:	None of the ingredients are listed
Chemicals known to cause reproductive toxicity for females:	None of the ingredients are listed
Chemicals known to cause reproductive toxicity for males:	None of the ingredients are listed
Chemicals known to cause developmental toxicity:	None of the ingredients are listed

### Carcinogenic Categories:

EPA [Ethylenediamine (107-15-3)]	D
TLV [TLV established by ACGIH] [Ethylenediamine (107-15-3)]	A4
NIOSH-Ca	None of the ingredients are listed
IARC [Sodium Nitrite (7632-00-0)]	2A

## Section 16. Other Information

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