

Section 1. Product and Company Identification

Product Name	Precidium MTI Bus Floor Membrane Resin
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 www.quantumchemical.com
Chemical Emergencies	For 24-Hour Emergency call Canutec at 613.996.6666

Section 2. Hazards Identification

OSHA/HCS Status This material is considered hazardous by OSHA Hazard Communication Standard (29 CFR 1910.1200)

Classification of the Substance
Or Mixture.

Acute Toxicity: Oral – Category 4
Acute Toxicity: Dermal – Category 4
Skin Corrosion/Irritation – Category 1B
Serious Eye Damage/Eye Irritation - Category 1
Specific Target Organ Toxicity (repeated exposure) – Category 2
Acute Aquatic Toxicity – Category 3
Chronic Aquatic Toxicity – Category 3

GHS Label Elements

Pictograms:



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Signal Word **DANGER**

Hazard Statements:

H312 Harmful in contact with skin.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H402 Harmful to aquatic life.
H412 Harmful to aquatic life with long-lasting effects.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements:	<p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P264 Wash with plenty of soap and water thoroughly after handling.</p> <p>P261 Avoid breathing dust/fume/gas/mist/vapours/spray.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P273 Avoid release to the environment.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p>
Response:	<p>P303+P361+P352 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash with plenty of soap and water.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.</p> <p>P337+P313 If eye irritation persists: Get medical advice/attention.</p> <p>P304+P340+P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.</p> <p>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P312 Call a POISON CENTER/doctor if you feel unwell.</p>
Storage:	<p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P405 Store locked up.</p>
Disposal:	P501: Dispose of contents/containers in accordance with local /regional/national/ international regulations.

Hazards not otherwise classified.

Emergency Overview

Danger.
 Corrosive liquid.
 Toxic if absorbed through skin.
 Prolonged or repeated contact may result in dermatitis.
 Causes skin burns.
 Causes eye burns.
 May cause respiratory tract irritation.
 Ingestion may cause gastric disturbances.
 Use with local exhaust ventilation.
 Wear NIOSH-certified (or equivalent) organic vapour/particulate respirator.
 Wear NIOSH-certified chemical goggles.
 Wear protective clothing.
 Eye wash fountains must be easily accessible.
 Wear full face shield if splashing hazard exists.

Section 3. Composition and Ingredient Information

Ingredients	%	ACGHI TLV	C.A.S. #	LD ₅₀	LC ₅₀
Alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)-poly(oxy(methyl-1,2 ethanediyl))	10 - 30	n/a	9046-10-0	Oral, Rat 2885 mg/kg	Inhalation , Rat >0.74 mg/l 8 hrs, no mortality
Glycerol poly(oxy propylene) Triamine	10- 30	n/a	64852-22-8	Oral, Rat 2690 mg/kg	N/D
Modified Isophoronediamine	10- 30	N/D	90530-15-7	Oral, Rat <2000 mg/kg	N/D

Note: Concentration rangers are given to protect proprietary information.

Section 4. First Aid Measures

Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Obtain immediate medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of soap and water. Remove contaminated clothing. Wash clothing before reuse. Obtain immediate medical attention
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.
Ingestion	If ingested, dilute with water. Consult a physician. Do not induce vomiting. Never give anything by mouth to an unconscious person.

Section 5. Fire Fighting Measures

Extinguishing Media	Water spray, dry powder, alcohol resistant foam, carbon dioxide.
Unusual hazards	Toxic gasses, vapours.
Sensitivity to Mechanical Impact	Not expected to be sensitive to mechanical impact.
Sensitivity to Static Discharge	Not expected to be sensitive to static discharge.
Special Fire Fighting Procedures	Cool fire-exposed containers with water spray. Heat will cause pressure buildup and may cause explosive rupture. Firefighter should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.

Section 6. Accidental Release Measures

Leak/Spill	Spills should be contained, solidified, and placed in suitable containers for disposal in a licensed facility. Wear respiratory protection and protective clothing. Provide adequate ventilation. This product is an alkaline. Before discharging sewage into treatment plants neutralization is generally required. It can be mechanically removed from water due to insolubility.
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Section 7. Handling and Storage

Handling Procedures	Avoid skin and eye contact. Avoid breathing fumes. Remove contaminated clothing before reuse. Maintain good personal hygiene.
Storage Needs	Store in a cool and dry place, for product integrity. Store in tightly sealed container and protect from moisture and foreign materials. Keep container closed when not in use.

Section 8. Exposure Controls and Personal Protection

Protective Equipment	
Eye/Type	Liquid chemical goggles. Contact lenses should not be worn.
Respiratory/Type	At least an air-purifying respirator equipped with an organic vapor cartridge and particulate pre-filters must be worn.
Gloves/Type	Rubber or plastic gloves. Butyl rubber gloves. Nitrile rubber. A barrier cream. Practice good hygiene; wash thoroughly before handling any food.
Clothing/Type	Wear adequate protective clothes.
Other/Type	Eyewash fountain. Emergency shower should be in close proximity.
Ventilation Requirements	Ventilate adequately.

Section 9. Physical and Chemical Properties

Physical State	Liquid.
Odor	Amine.
Specific Gravity	N/D.
Odor Threshold(ppm)	Not applicable.
Vapor Pressure (mm Hg)	N/D.
Vapor Density (Air=1)	N/D.
Evaporation Rate	N/D.
Boiling Point	N/D.
pH	>9
Solubility in water	N/D.
Freezing Point (° C)	N/D.

Section 10. Stability and Reactivity

Incompatibility	Acids, isocyanates and oxidizing agents.
Reactivity Conditions	See “incompatibility”.
Hazardous Products of Decomposition	Carbon Monoxide/Dioxide. NOx.

Section 11. Toxicological Information

No data exists for product itself.

Component Acute Toxicity:

Alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)-poly(oxy(methyl-1,2 ethanediyl))	Oral, Rat LD50 2885 mg/kg	Inhalation , Rat LC50 >0.74 mg/l 8 hrs, no mortality	Dermal, Rabbit LD50 2980 mg/kg
Glycerol poly(oxy propylene) Triamine	Oral, Rat LD50 2690 mg/kg	N/D	Dermal, Rabbit LD50 12500 mg/kg
Modified Isophoronediamine	Oral, Rat <2000 mg/kg	N/D	N/D

Mutagenicity

Alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)-poly(oxy(methyl-1,2 ethanediyl))	Negative in mammalian cells or bacteria.
Glycerol poly(oxy propylene) Triamine	Not Available
Modified Isophoronediamine	Not Available

Carcinogenicity

Alpha-(2-Aminomethylethyl)-omega-(2-aminomethylethoxy)-poly(oxy(methyl-1,2 ethanediyl))	No data available.
Glycerol poly(oxy propylene)	Not available.

Triamine

Modified Isophoronediamine

Not available.

Reproductive Toxicity

Alpha-(2-Aminomethylethyl)
-omega-(2-aminomethylethoxy)
-poly(oxy(methyl-1,2 ethanediyl))

No indication of a fertility impairing effect.

Teratogenicity

Alpha-(2-Aminomethylethyl)
-omega-(2-aminomethylethoxy)
-poly(oxy(methyl-1,2 ethanediyl))

No indications of a developmental toxic/teratogenic were seen in animal studies.

Sensitization:

Alpha-(2-Aminomethylethyl)
-omega-(2-aminomethylethoxy)
-poly(oxy(methyl-1,2 ethanediyl))

No data available.

Glycerol poly(oxy propylene)
Triamine

Not sensitizing to skin.

Modified Isophoronediamine

Caused skin sensitization in animal studies.

Section 12. Ecological Information

No data available for product itself.

Toxicity

Alpha-(2-Aminomethylethyl)
-omega-(2-aminomethylethoxy)
-poly(oxy(methyl-1,2 ethanediyl))

Fish

LC 50 (96 h) >15 mg/l
Oncorhynchus mykiss

Daphnia

EC50 (48 h) 80 mg/l

Algae

Glycerol poly(oxy propylene)
Triamine

LC 50 (96 h) 68 mg/l

No data

Modified Isophoronediamine

No data

No data

Biodegradability

Alpha-(2-Aminomethylethyl)
-omega-(2-aminomethylethoxy)
-poly(oxy(methyl-1,2 ethanediyl))

Not readily biodegradable (by OECD criteria).

Glycerol poly(oxy propylene)
Triamine

Not readily biodegradable.

Bioaccumulative Potential

Alpha-(2-Aminomethylethyl)
-omega-(2-aminomethylethoxy)
-poly(oxy(methyl-1,2 ethanediyl))

No significant accumulation in organisms is expected as a result of the distribution coefficient of n-octanol/water (log Pow).

Mobility in Soil

Alpha-(2-Aminomethylethyl)
-omega-(2-aminomethylethoxy)
-poly(oxy(methyl-1,2 ethanediyl))

Adsorption to solid phase is not expected.

Section 13. Disposal Considerations

Waste Disposal In accordance with municipal, provincial and federal regulations. Empty containers must be handled with care due to product residue. Do not heat or cut empty containers with electric or gas torch.

Section 14. Transport Information

T.D.G. Classification Amine, liquid, corrosive, N.O.S., Class 8, UN2735, Packing Group III.

US DOT

Hazard Class	8.
Packing group	II.
ID Number	UN 2735.
Hazard Label	8.
Proper Shipping Name	Amines, Liquid, Corrosive, N.O.S. (contains polyetherdiamine).

Section 15. Regulatory Information

TSCA All components listed or exempt.

Section 16. Other Information

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