Section 1. Product and Company Identification

Product Name	PRECIDIUM [™] MTI Bus Floor Membrane Resin Grey
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 1C
	Serious Eye Damage/Eye Irritation	Category 1
	Specific Target Organ Toxicity (repeated exposure)	Category 2
	Acute Aquatic Toxicity	Category 3
	Chronic Aquatic Toxicity	Category2

GHS Label Elements:

Pict

Pictograms:	
Signal Word:	Danger
Hazard Statements:	 H312 Harmful in contact with skin. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H410 Very toxic to aquatic life with long lasting effects. H373 May cause damage to organs through prolonged or repeated exposure.
Precautionary Statements:	 P280 Wear protective gloves/protective clothing/eye protection/face protection. P264 Wash with plenty of soap and water thoroughly after handling. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment.

Response:	 P303+P361+P350 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. 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. P337+P313 If eye irritation persists: Get medical advice/attention. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P312 Call a POISON CENTER/doctor if you feel unwell.
Storage:	P403+P233 Store in a well-ventilated place. Keep container tightly closed.P405 Store locked up.
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 swallowed.
	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

Hazardous Ingredients:	%	ACGHI TLV	C.A.S. #	LD50	LC50
Alpha-(2-Aminomethylethyl) -omega-(2-aminomethylethoxy) -poly(oxy(methyl-1,2 ethanediyl))	65-85	N/A	9046-10-0	Oral, Rat 2885 mg/kg	Inhalation , Rat >0.74 mg/l 8 hrs, no mortality
Benzenediamine,ar,ar—diethyl- Ar-methyl-	15-40	N/A	68479-98-1	Oral, Rat 738 mg/kg Dermal, Rabbit >2000 mg/kg	N/A
Titanium Dioxide	1-5	N/A	13463-67-7	N/A	N/A

Note: Concentration Ranges are given top protect intellectual property.

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

Flash Point:	234°C. (CC).
Auto Ignition Temperature (°C):	230°C.
Upper Explosive Limit:	Not available.
Lower Explosive Limit:	Not available.
Extinguishing Media:	Water fog. Use flooding amounts of water in early stages of fire.
Unusual Hazards:	Not applicable.
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.

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

This product contains a small amount of titanium dioxide (TiO2). Exposure limits set for TiO2 are for dust exposure which causes a respiration hazard. IARC considers TiO2 to be in group 2B "possibly carcinogenic in humans", again based on exposure to respirable dust. This finding is disputed by groups such as Dupont scientists who do not consider TiO2 to cause lung cancer or chronic respiratory diseases in humans in concentrations experienced in the work place. In this product all TiO2 is fully dispersed in liquid and in our opinion does not pose any respiratory hazard, making the hazard from respirable dust irrelevant to this product.

No components of this product have established workplace exposure limits, with the exception of TiO2 (see above).

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:	Approximately 1.1.
Odor Threshold (ppm):	Not applicable.
Vapor Pressure (mm Hg):	0.9 @ 234°C.
Vapor Density (Air=1):	>1.
Evaporation Rate:	Non-volatile.
Boiling Point:	250°C.
pH:	10-11.
Solubility in Water:	1 %.
Freezing Point (°C):	-29°C.

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
Benzenediamine,ar,ar—diethyl- Ar-methyl-	Oral, Rat LD50 738 mg/kg	n/a	Dermal, Rabbit LD50 >2000 mg/kg
Mutagenicity: Alpha-(2-Aminomethylethyl) -omega-(2-aminomethylethoxy) -poly(oxy(methyl-1,2 ethanediyl))	Negative in mammalian c	ells or bacteria.	
Benzenediamine,ar,ar—diethyl- Ar-methyl-	In Vitro: positive and negative results in bacterial and mammalian cells in the presence of metabolic activation. In Vivo: Mouse micronucleus test: negative. Dominant lethal test: rat, negative.		
Carcinogenicity: Alpha-(2-Aminomethylethyl) -omega-(2-aminomethylethoxy) -poly(oxy(methyl-1,2 ethanediyl))	No data available.	negative.	
Benzenediamine,ar,ar—diethyl- Ar-methyl-	Not listed as carcinogenic	by ACGIH, IARC, NTP,	OSHA.
Titanium Dioxide	See Section 8.		
Reproductive Toxicity: Alpha-(2-Aminomethylethyl) -omega-(2-aminomethylethoxy) -poly(oxy(methyl-1,2 ethanediyl))	No indication of a fertility	y impairing effect.	
Benzenediamine,ar,ar—diethyl- Ar-methyl-	No effect on reproductive	e organs in repeated dose st	udies in rats.

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.
Benzenediamine,ar,ar—diethyl- Ar-methyl-	No data available.
Sensitization: Alpha-(2-Aminomethylethyl) -omega-(2-aminomethylethoxy) -poly(oxy(methyl-1,2 ethanediyl))	No data available.
Benzenediamine,ar,ar—diethyl- Ar-methyl-	Not sensitizing (guinea pig).

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-hour) >15 mg/l Oncorhynchus mykiss	Daphnia EC50 (48-hour) 80 mg/l	Algae
Benzenediamine,ar,ar—diethyl- Ar-methyl-	LC50 (48-hour) 200 mg/l	LC50 (48-hour) 0.5 mg/l	EC10 (72-hour) 54 mg/l
Biodegrability Alpha-(2-Aminomethylethyl) -omega-(2-aminomethylethoxy) -poly(oxy(methyl-1,2 ethanediyl))	Not readily biodegradable	(by OECD criteria).	
Benzenediamine,ar,ar—diethyl- Ar-methyl-	Not readily biodegradable.		
Bioaccumulative Potential: Alpha-(2-Aminomethylethyl) -omega-(2-aminomethylethoxy) -poly(oxy(methyl-1,2 ethanediyl))	No significant accumulation coefficient of n-octanol/wa	e 1	as a result of the distribution
Benzenediamine,ar,ar—diethyl- Ar-methyl-	No information available.		
Mobility in Soil: Alpha-(2-Aminomethylethyl) -omega-(2-aminomethylethoxy) -poly(oxy(methyl-1,2 ethanediyl))	Adsorption to solid phase	is not expected.	
Benzenediamine,ar,ar—diethyl- Ar-methyl-	The substance is expected KOC = $0.32-551 \text{ l/kg}$ (QS	to partition primarily to so AR estimate) Henrys law c	

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 II.
US DOT:	
Hazard Class:	8.

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

WHMIS Classification:	Class D, Division 1, Subdivision B (Toxic), Class E (corrosive).
Canadian DSL:	All components are listed or exempted.
US TSCA:	Released/listed.

Section 16. Other Information

Revision Date:	February 27, 2023
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