

Section 1. Product and Company Identification

Product Name	PRECIDIUM™ 550D-FR Resin PRECIDIUM™ brand name is a trademark of Quantum Chemical, and is being used with permission.
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

2.1 Classification

OSHA Regulatory Status:	This material is considered hazardous by the 2012 OSHA Hazard Communication Standard (CFR 1910.1200)
WHMIS	D1B Materials causing immediate and serious toxic effects – Toxic Material E Corrosive Material

2.2 Label Elements:

Pictogram:



Signal Word:

Hazard Statements:

Warning

H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H372	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
H290	May be corrosive to metals.

Precautionary Statements:

P264	Wash face, hands and any exposed skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P284	[In case of inadequate ventilation] wear respiratory protection.
P273	Avoid release to the environment.

Response:	P314	Get medical advice/attention if you feel unwell.
	P305 + P351 + P338 + P313	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical advice/attention.
	P302 + P350	IF ON SKIN: Gently wash with plenty of soap and water.
	P332 + P313	If skin irritation occurs: Get medical advice/attention.
	P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	S64/ P301 + P310 + P331	IF SWALLOWED: Rinse mouth with water (only if person is conscious). Drink plenty of water. Do NOT induce vomiting. Immediately call a POISON CENTRE/doctor.
Storage:	P233	Keep container tightly closed.
Disposal:	P501	Dispose of contents/containers in accordance with local /regional/national international regulations.

Section 3. Composition and Ingredient Information

Hazardous Ingredients	%	T.L.V.	C.A.S. #	LD/50,	Route, Species
Poly (oxy(methyl-1,2-Ethanediy)), alpha-(2-Aminomethylethyl)omega- (2-aminomethylethoxy) –diamine	30-60	N/D	9046-10-0	480mg/Kg	oral, rat
Benzenediamine,ar,ar,-diethyl-ar-methyl-	10 - 30		68479-98-1	738 mg/kg	oral, rat
Ammonium Polyphosphate	15 - 40	N/A	68333-79-9		

Note: Composition ranges 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, rinse out mouth; 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)	330°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. Firefighters 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	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

Acute Oral Toxicity (LD50)	900 mg/Kg Rat
Irritancy of material	Irritant

Sensitizing Capability of Material	Not available
Carcinogenicity of Material	Not classified as carcinogenic
Teratogenicity	Not available
Mutanagenity	Not available
Reproductive Effects	Not available
Synergistic Materials	None known

Section 12. Ecological Information

Aquatic Toxicity:

Benzenediamine,ar,ar,-diethyl-ar-methyl

Freshwater Fish LC50 (48hr) 200 mg/l

Freshwater Algae EC10/72 hr 54 mg/l

Water Flea LC50 (48 hr) 0.5 mg/l

Poly (oxy(methyl-1,2-Ethanediy)), alpha-(2-Aminomethylethyl)omega- (2-aminomethylethoxy) –diamine

Fish *Leuciscus idius* LC50 (96 hr) >220 - <460 mg/l

Daphnia Magna EC50 (48hr) 15 mg/l

Persistence/Degradability	Poorly Biodegradable
Bioaccumulation	Accumulation in organisms is not expected

Due to the pH-value of the product, neutralization is generally required before discharging sewage into treatment plants. Do not release untreated into natural waters.

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.
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Section 14. Transport Information

T.D.G. Classification	Amine, liquid, corrosive, N.O.S., Class 8, UN2735, Packing Group II
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Section 15. Regulatory Information

WHMIS Classification	Class D, Division 1, Subdivision B (Toxic), Class E (Corrosive)
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Section 16. Other Information

Revision Date	July 19, 2018
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