

## Section 1. Product and Company Identification

Product Name                    **PRECIDIUM™ 150DFR Resin**

Manufacturer                    Quantum Technical Services Ltd. (Dba Quantum Chemical)  
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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**                                **D2A** Very Toxic Material  
     **D2B** Toxic Materials

Acute Toxicity - Oral	Category 4
Acute Toxicity – Dermal	Category 4
Specific Target Organ Toxicity (Single Exposure)	Category 3
Serious Eye Damage/eye irritation	Category 2
Specific Target Organ Toxicity (repeated Exposure)	Category 2
Acute Aquatic Toxicity	Category 1
Chronic Aquatic Toxicity	Category 1

### 2.2 Label Elements:

#### Pictogram:



#### Signal Word:

#### Hazard Statements:

#### Warning

**H302** Harmful if swallowed.  
**H336** May cause drowsiness or dizziness.  
**H312** Harmful in contact with skin.  
**H319** Causes serious eye irritation.  
**H372** May cause damage to organs through prolonged or repeated exposure.  
**H410** Very toxic to aquatic life with long lasting effects.

<b>Precautionary Statements:</b>	<b>P264</b>	Wash face, hands and any exposed skin thoroughly after handling.
	<b>P270</b>	Do not eat, drink, or smoke when using this product.
	<b>P271</b>	Use only outdoors or in well-ventilated area.
	<b>P280</b>	Wear protective gloves/protective clothing/eye protection/face protection.
	<b>P260</b>	Do not breathe dust/fume/gas/mist/vapours/spray.
	<b>P284</b>	[In case of inadequate ventilation] wear respiratory protection.
	<b>P273</b>	Avoid release to the environment.
<b>Response:</b>	<b>P314</b>	Get medical advice/attention if you feel unwell.
	<b>P305 + P351 + P338 + P313</b>	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.
	<b>P302 + P350</b>	IF ON SKIN: Gently wash with plenty of soap and water.
	<b>P332 + P313</b>	If skin irritation occurs: Get medical advice/attention.
	<b>P304 + P340</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	<b>P301 + P330</b>	IF SWALLOWED: Rinse mouth with water (only if person is conscious). call a POISON CENTRE/doctor if you feel unwell.
<b>Storage:</b>	<b>P403 +P233</b>	Store in a well-ventilated space. Keep container tightly closed.
<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	%	T.L.V.	C.A.S. #	LD/50,	Route, Species
1,4 Butanediol	7-13	N/D	110-63-4	1500mg/Kg >2000mg/Kg	oral, rat dermal, rat
Benzenediamine,ar,ar-diethyl-ar-methyl-	7-13	N/D	68479-98-1	738 mg/kg >2000 mg/Kg	oral, rat dermal,rat

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 5 minutes. Consult a physician if irritation continues.
Skin Contact	In case of contact, immediately flush skin with plenty of soap and water. Remove contaminated clothing. Wash clothing before reuse.
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, consult a physician. Do not induce vomiting. Never give anything by mouth to an unconscious person.

### Section 5. Fire Fighting Measures

Flash Point	>200. (CC)
Auto Ignition Temperature (C)	Not available.
Upper Explosive Limit	Not available.
Lower Explosive Limit	Not available.
Extinguishing Media	Carbon Dioxide, Dry chemical, foam. Water spray.
Hazardous Combustion Products	By fire: protect against potentially toxic and irritating fumes.

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. 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 vapour 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	Little or no odor.
Specific Gravity	approximately 1.12
Odor Threshold(ppm)	Not applicable.
Vapor Pressure (mm Hg)	Not available.
Vapor Density (Air=1)	Not available.
Evaporation Rate	Not available.
Boiling Point	Not available.
PH	Not available.
Solubility in water	Not soluble.
Freezing Point (deg C)	Not available.
Melting Point (deg C)	Not applicable.

## Section 10. Stability and Reactivity

Incompatibility	No specific materials to avoid.
Reactivity Conditions	Exposure to high heat.
Hazardous products of Decomposition	By fire: Carbon Monoxide/ Dioxide. Other possibly irritating gases.

## Section 11. Toxicological Information

### Acute Toxicity/Effects

No data for product itself.

Information on components:

#### **Benzenediamine,ar,ar-diethyl-ar-methyl-**

Acute Oral Toxicity (LD50)	738 mg/Kg Rat
Acute Dermal Toxicity (LD50)	>2000 mg/Kg Rabbit

#### **1,4 Butanediol**

Acute Oral Toxicity (LD50)	1500 mg/Kg Rat
Acute Dermal Toxicity (LD50)	>2000 mg/Kg Rat
Acute Inhalation Toxicity (LC50)	>5.1 mg/l Rat, 4hr

### Chronic Toxicity Effects:

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:

#### Product Itself:

Water Flea LC50 89.6 mg/l

#### **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

#### **1,4 Butanediol**

Fish Pimephales promelas LC50 (96 hr) >30,000 mg/l  
 Daphnia Magna EC50 (48hr) 813 mg/l  
 Aquatic Plants Scenedesmus subspicatus EC50 (72 hr) >500 mg/l

**Product Itself:****Persistence/Degradability**

Poorly Biodegradable

**Bioaccumulation**

Accumulation in organisms 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

Non regulated

**Section 15. Regulatory Information**

WHMIS Classification

D2A, D2B

**Section 16. Other Information**

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Note

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