

SAFETY DATA SHEET

Quantum Technical Services Ltd.

Section 1. Product and Company Identification

Product Name **PRECIDIUM™ BL100 Resin Black**

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	Category 2

GHS Label Elements:

Pictograms:



Signal Word: **Warning**

Hazard Statements:

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H319 Causes serious eye irritation.
H336 May Cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

P260 Do not breathe dust/fume/gas/mist/vapour/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P264 Wash with plenty of soap and water thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.

Response:	<p>P303+P361+P350 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Gently 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 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</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 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. #	LD ₅₀	LC ₅₀
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
Ethylene Glycol	3-7		107-21-1	Oral, Rat 7712 mg/kg Dermal, Rabbit 10600 mg/kg	n/a
Carbon Black	3-7		1333-86-4	Oral, Rat >8000 mg/kg	

Note: Concentration Ranges are given to 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:	Not available.
Auto Ignition Temperature (C):	Not available.
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.
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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:	Slight amine odor.
Specific Gravity:	Approximately 1.03.
Odor Threshold (ppm):	Not applicable.
Vapor Pressure (mm Hg):	Not known.
Vapor Density (Air=1):	>1.
Evaporation Rate:	Non-volatile.
Boiling Point:	Not known.
pH:	4-8.
Solubility in Water:	Slight.
Freezing Point (°C):	< 8.9°C (16° F)

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

Carcinogenicity of Carbon Black:

In 2006 IARC (International Agency for Research on Cancer) re-affirmed its 1995 classification of carbon black as Group 2B (possibly carcinogenic to humans). All testing done to reach this conclusion were based on inhalation studies of carbon black in its powder form. In this product all carbon black is dispersed in liquid and there is no danger of inhalation.

No data exists for product itself.

Component Acute Toxicity:

Benzenediamine,ar,ar—diethyl-Ar-methyl-	Oral, Rat LD50 738 mg/kg	n/a	Dermal, Rabbit LD50 >2000 mg/kg
Ethylene Glycol	Oral, Rat LD50 7712 mg/kg		Dermal, Rabbit LD50 >10600 mg/kg
Carbon Black	Oral, Rat LD50 7712 mg/kg		

Mutagenicity:

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:

Benzenediamine,ar,ar—diethyl-Ar-methyl-	Not listed as carcinogenic by ACGIH, IARC, NTP, OSHA.
Ethylene Glycol	Not listed as carcinogenic by ACGIH, IARC, NTP, OSHA
Carbon Black	See above

Reproductive Toxicity:

Benzenediamine,ar,ar—diethyl-Ar-methyl- No effect on reproductive organs in repeated dose studies in rats.

Teratogenicity:

Benzenediamine,ar,ar—diethyl-Ar-methyl- No data available.

Sensitization:

Benzenediamine,ar,ar—diethyl-Ar-methyl- Not sensitizing (guinea pig).

Section 12. Ecological Information

No data available for product itself.

Toxicity:	Fish	Daphnia	Algae
Benzenediamine,ar,ar—diethyl- Ar-methyl-	LC50 (48 h) 200 mg/l	LC50 (48 h) 0.5 mg/l	EC10 (72 h) 54mg/l
Ethylene Glycol	LC50 (96 h) 16000 mg/l	LC50 (48 h) 46300 mg/l	EC50 (96 h) 6500-13000 mg/l

Biodegradability:	
Benzenediamine,ar,ar—diethyl- Ar-methyl-	Not readily biodegradable.

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:	Not regulated.
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Section 15. Regulatory Information

Canadian DSL:	All components are listed or exempted.
US TSCA:	Released/listed.

Section 16. Other Information

Revision Date:	February 28, 2023
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