

SAFETY DATA SHEET

Quantum Technical Services Ltd.

Section 1. Product and Company Identification

Product Name **PRECIDIUM™ MTI Bus Floor 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)
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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
Flammable Liquids – Category 2
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:

H225 Highly Flammable Liquid and Vapour.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H319 Causes serious eye irritation.
H336 May Cause drowsiness or dizziness.
H372 Causes damage to organs through prolonged or repeated exposure. Central Nervous System.

H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

P210 Keep away from heat/sparks/open flames/ hot surfaces – No Smoking
P243 Take precautionary measures against static discharge.
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:

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.
P370 + P378 In case of fire, use sand and/or rock wool, foam or carbon dioxide for extinction. Never use water.

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.
Toxic if swallowed.
Flammable
Prolonged or repeated contact may result in dermatitis.
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
Benzenediamine,ar,ar—diethyl- Ar-methyl-	10-30	n/a	68479-98-1	Oral, Rat 738 mg/kg Dermal, Rabbit >2000 mg/kg	n/a
1,4 Butanediol	5–10		110-63-4		
Aluminum Powder	5–10		7429-90-5		

White Mineral Spirit	1–5	64742-82-1	
Carbon Black	1-5	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 and Procedures	Cool fire-exposed containers with water spray. Heat will cause pressure buildup 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
1,4 Butanediol	Oral, Rat LD50 1500		Dermal, Rat LD50 >2000 mg/kg
Carbon Black	Oral, Rat LD50 7712 mg/kg		

Aluminum Powder	Oral, Rat LD50 >2000 mg/kg	Inhalation, Rat LC50 >888 mg/m3 NOAEC (rat) = 10 mg/m3
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White Mineral Spirit	Oral, Rat LD50 >15000 mg/kg	Dermal, Rabbit LD50 >3400 mg/kg
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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.

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

Benzenediamine,ar,ar—diethyl-
Ar-methyl-

Fish

LC50 (48 h) 200 mg/l

Daphnia

LC50 (48 h) 0.5 mg/l

Algae

EC10 (72 h) 54mg/l

Aluminum powder/white spirit blend

LC50 (96 h) 10 – 30 mg/l (OECD 203)

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.

Section 14. Transport Information

T.D.G. Classification

UN1263, PAINT, FLAMMABLE, CLASS 3 Packaging Group III

Section 15. Regulatory Information

Canadian DSL

All components are listed or exempted.

US TSCA

Released/listed.

Section 16. Other Information

Revision Date: Dec. 16, 2021

Note

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