SAFETY DATA SHEET

Quantum Technical Services Ltd.

Section 1. Product and Company Identification

Product Name	**PRECIDIUM™ MTI 2100 & 2200 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

This material is not considered hazardous according to GHS

2.2 Label Elements:

None

Section 3. Composition and Ingredient Information

Ingredients	%	T.L.V.	C.A.S. #	LD/50	Route	Species
Polytetramethlyneoxide-di-p-aminobenzoate	60-80	N/D	54667-43-5	>5000 mg/kg	oral	rat
Titanium Dioxide	1- 5	10mg/m3	13463-67-7	>5000 mg/kg	oral	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 20 minutes. Remove contact lenses.
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 a person vomits when lying on their back, place them in a recovery position. Prevent aspiration of vomit. Turn victims head to side.
Most important symptoms/ effects, acute and delayed.	Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: sore throat ,asthma,. Adverse respiratory effects such as cough, tightness of chest or shortness of breath.

Section 5. Fire Fighting Measures

Flash Point	315°C.
Auto Ignition Temperature (C)	Not available.
Upper Explosive Limit	Not available.
Lower Explosive Limit	Not available.
Extinguishing Media	CO2, Dry Chemical, Alcohol Resistant Foam.
Specific Hazards	Incomplete combustion may form carbon monoxide. Burning produces noxious and toxic fumes. No special precautions required.
Special Protective Equipment For Firefighters;	Use personal protective equipment. Wear self-contained breathing apparatus for fire fighting if necessary.

Section 6. Accidental Release Measures

Personal Precautions	Wear appropriate respiratory protection, (NIOSH approved respirator or self-contained breathing apparatus), and chemically protective clothing.
Protective Equipment and Emergency Procedures	Wear suitable protective clothing, gloves and eye/face protection. Evacuate personnel to safe areas.
Environmental Precautions	Construct dike to prevent spreading. Prevent discharge into drains, surface or ground water.
Methods for Clean-Up	Absorb spill with appropriate inert material; place in appropriate chemical waste container.

Section 7. Handling and Storage

Handling Procedures	Emergency showers and eye wash stations should be readily available. Avoid breathing vapors and/or aerosols. Avoid contact with eyes. Use only in well-ventilated areas. Use personal protective equipment. When using, do not eat, drink, or smoke.
Storage Needs	Store in a cool and dry, well-ventilated space. Store in tightly sealed containers.

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.

Engineering Measures	Provide readily available safety showers and eye wash stations. Provide natural or explosion proof ventilation adequate to ensure concentrations are kept below exposure limits.

Protective Equipment	
Eye/Type	Chemical safety glasses.
Respiratory/Type	Wear appropriate NIOSH approved ventilator with organic cartridges when ventilation is inadequate.
Gloves/Type	Nitrile rubber. chemical- resistant, impervious gloves should be worn at all times when handling chemical products.
Clothing/Type	Long sleeve shirts and trousers without cuffs.
Special Instructions for Protection and Hygiene:	Wash hands at the end of each work shift and before eating, smoking or using the washroom.

Section 9. Physical and Chemical Properties

Physical State	Liquid.
Odor	Odorless.
Specific Gravity	0.98
Odor Threshold(ppm)	No data available.
Vapor Pressure (mm Hg)	< 5.0 at 70° F (21°C)
Vapor Density (Air=1)	>1
Evaporation Rate	No data available.
Boiling Point	>482° F (>250°C)
pH	9
Solubility in water	Insoluble.
Freezing Point (ºC)	No data available.

Section 10. Stability and Reactivity

Chemical Stability	Stable under normal conditions.
Incompatibility	Oxidizing agents.
Reactivity Conditions	No data available.
Hazardous Products of Decomposition	Carbon Monoxide/Dioxide.

Section 11. Toxicological Information

Likely Routes of Exposure:	
Effects on Eyes	Contact with eyes may cause irritation.
Effects on Skin	Mild skin irritation.
Inhalation Effects	May cause nose, throat, and lung irritation. Inhalation of vapors and/or aerosols may cause sore throat, asthma or adverse respiratory effects such as cough, tightness of chest or shortness of breath.
Acute Toxicity:	
Acute Oral Toxicity(LD50)	>5000 mg/Kg Rat.
Inhalation (LC50)	(1 hr) >20 mg/l Rat.
Acute Dermal Toxicity (LD 50)	>2000 mg/kg Rabbit (estimated).
Irritancy of Material	Irritant.
Sensitizing Capability of Material	Not available.
Carcinogenity of Material	No data available except for Titanium Dioxide (see Section 8).
Teratogenicity	Not available.
Mutanagenity	Not available.
Reproductive Effects	Not available.
Synergistic Materials	None known.

Section 12. Ecological Information

Ecotoxicity	Aquatic Toxicity	No data available on product itself.
	Toxicity to Other Organisms	No data available.
Persistance and Degradability	Biodegrability	No data available on product itself.
	Mobility	No data available.
	Bioaccumulation	No data available on product itself.

Section 13. Disposal Considerations

Dispose in accordance with federal, state, and local requirements.

Section 14. Transport Information

DOT	Not dangerous goods.
IATA	Not dangerous goods.
IMDG	Not dangerous goods.
TDG	Not dangerous goods.

Section 15. Regulatory Information

Polytetramethlyneoxide-di-p-aminobenzoate 54667-43-5

USA	TSCA	Included on inventory.
Canada	DSL	Not on inventory. Notifications have been submitted to Environment Canada.

Section 16. Other Information

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