

**SAFETY DATA SHEET**

Quantum Technical Services Ltd.

**Section 1. Product and Company Identification**

Product Name **PRECIDIUM™ CRS 1100 Crack Repair Resin**

Manufacturer Quantum Technical Services Ltd. (Dba Quantum Chemical)  
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[www.quantumchemical.com](http://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:**

<b>Acute Toxicity: Oral</b>	<b>Category 4</b>
<b>Acute Toxicity: Dermal</b>	<b>Category 4</b>
<b>Skin Corrosion/Irritation</b>	<b>Category 1C</b>
<b>Eye Irritation</b>	<b>Category 2</b>
<b>Specific Target Organ Toxicity (repeated exposure)</b>	<b>Category 2</b>
<b>Acute Aquatic Toxicity</b>	<b>Category 1</b>
<b>Chronic Aquatic Toxicity</b>	<b>Category 1</b>

**GHS Label Elements:  
Pictograms:**

**Signal Word:** Warning

**Hazard Statements:**

- H226** Flammable liquid and vapour
- H312** Harmful in contact with skin.
- H302** Harmful if swallowed
- H332** Harmful if inhaled.
- H319** Causes serious eye irritation
- H335** May cause respiratory irritation.
- H336** May cause drowsiness or dizziness
- H373** May cause damage to respiratory system through prolonged or repeated exposure

**Precautionary Statements:**

- P210** Keep away from heat/sparks/open flame/hot surfaces
- P240** Ground/bond container and receiving equipment
- P233** Keep container tightly closed
- P280** Wear protective gloves/protective clothing/eye protection/face protection.
- P284** [In case of inadequate ventilation] wear respiratory protection.
- P271** Use only outdoors or in a well-ventilated area.
- P260** Do not breathe dust/fume/gas/mist/vapour/spray.
- P264** Wash hands thoroughly after handling.
- P272** Contaminated work clothing should not be allowed out of the workplace.

<b>Response:</b>	<p><b>P303+P361+P350</b> IF ON SKIN (or hair): Take off immediately all contaminated clothing. Gently wash with plenty of soap and water.</p> <p><b>P333+P313</b> If skin irritation or rash occurs: Get medical advice/attention.</p> <p><b>P305+P351+P338</b> IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.</p> <p><b>P337+P313</b> If eye irritation persists: Get medical advice/attention.</p> <p><b>P304+P340</b> IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p><b>P301+P330+P331</b> IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p><b>P312</b> Call a POISON CENTER/doctor if you feel unwell.</p>
<b>Storage:</b>	<p><b>P403+P233</b> Store in a well-ventilated place. Keep container tightly closed.</p> <p><b>P405</b> Store locked up.</p>
<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:	%	ACGHI TLV	C.A.S. #	LD <sub>50</sub>	LC <sub>50</sub>
Diethylene Glycol	10-20		111-46-6	Oral, Rat 12565 mg/kg Dermal, Rabbit 11890 mg/kg	n/a
2-Heptanone	30-60	50 ppm	110-43-0		

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. <b>Do not induce vomiting.</b> 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:** Ventilate the area, remove all sources of ignition. 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.

## 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.

2-Heptanone	ACGIH TLV	50 ppm
	OSHA PEL	100 ppm , 465 mg/L

## Section 9. Physical and Chemical Properties

Physical State:	Liquid.
Odor:	Odor of bananas.
Specific Gravity:	Approximately 1.00.
Odor Threshold (ppm):	Not applicable.
Vapor Pressure (mm Hg):	Not known.
Vapor Density (Air=1):	Not Known.
Evaporation Rate:	Not Known.
Boiling Point:	Not known.
pH:	Not Known
Solubility in Water:	Not known.
Freezing Point (°C):	Not known

## Section 10. Stability and Reactivity

**Incompatibility:** Acids, isocyanates and oxidizing agents.

**Reactivity Conditions:** See “incompatibility”.

**Hazardous products of Decomposition:** Carbon Monoxide/Dioxide. NO<sub>x</sub>.

## Section 11. Toxicological Information

### Component Acute Toxicity:

Diethylene Glycol	Oral, Rat LD50 12565 mg/kg	Dermal, Rabbit LD50 11890 mg/kg
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Carcinogenicity Not listed as carcinogenic by ACGIH, IARC, NTP, OSHA

### 2-Heptanone

Signs and symptoms of inhalation: May cause respiratory tract irritation. Coughing, difficulty breathing, and tightness in chest. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness

Signs and symptoms of ingestion: Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Aspiration hazard. Aspiration into lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

Carcinogenicity Not listed as a carcinogen by ACGIH, IARC, OSHA, or NTP

Toxicity Oral LD50 (rat) 1670 mg/kg.  
Dermal LD50 (rabbit) 10300 mg/kg.  
Inhalation LC50 (rat) = >16 mg/L (4-hour exposure to respirable aerosols).

## Section 12. Ecological Information

No data available for product itself.

Toxicity:	Fish	Daphnia	Algae
Diethylene Glycol	LC50 (96 h) 75200 mg/l	LC50 (48 h) 84000 mg/l	

### 2-Heptanone

#### Toxicity:

Daphnia 48 hrs (Daphnia Magna)	EC50	90.1 mg/L/
Fish 96 hrs (Fathead Minnow)	LC50	131 mg/L
Algae 72 hours (Green Algae)	EC50	75.5 mg/L

## 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: UN1866 Resin Solution Flammable (n-Amyl Methyl Ketone)  
Class 3, PG III

This product has been classified as Class 3 because a major component is classified as Class 3.

## Section 15. Regulatory Information

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

## Section 16. Other Information

Revision Date: Nov 21, 2024

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