

Safety Data Sheet

Section 1: Product and Company Information

1.1 Product Identifier:

Product Name: Hydroqual™ (All Particle Sizes)
 Product Description: Monocrystalline and Polycrystalline Diamond Slurry
 Product Codes: HAM X(X)(X), HAPD X(X)(X)

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:

Relevant Identified Uses: Industrial polishing
 Uses Advised Against: No data available

1.3 Details of Supplier of Safety Data Sheet:

Supplier: Qual Diamond Hi-Tech Corporation Phone: 1-858-263-4358
 9823 Pacific Heights Blvd, Suite A Fax: 1-858-263-4359
 San Diego, CA 92121 USA

1.4 Emergency Telephone Number: 1-800-424-9300 (US); 1-703-527-3887 (International)

Section 2: Hazards Identification

2.1 Classification of the Substance or Mixture:

A component of the mixture is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910).

Category 2 Specific target organ toxicity (repeated exposure).
 Target Organs: Kidney, Liver

2.2 Label Elements:

GHS Pictogram:  

GHS Signal Word: Warning Danger

Precautionary Statements:

P280 Wear protective gloves and eye/face protection.
 P301/P310 If Swallowed: Immediately call a poison center or physician.
 P331 Do not induce vomiting.

2.3 Other Hazards:

Repeated contact may cause eye irritation.

Section 3: Composition/ Information on Ingredients

3.1 Substances: N/A

3.2 Mixtures:

Name	CAS No.	Wt. %	GHS Classification
Diamond	7782-40-3	1-50%	None
(Di)Propylene Glycol, Ethylene Glycol	25265-71-8, 57-55-6, 107-21-1	1-98%	None

Section 4: First-Aid Measures

4.1 Description of First Aid Measures:

- Skin Contact: Wash thoroughly with abundant soap and water. Remove contaminated clothing and wash with abundant soap and water.
- Eye Exposure: Flush thoroughly with abundant running water. Seek medical attention if needed.
- Inhalation: Move affected individual to open area with fresh air. Administer oxygen and seek medical attentions if needed.
- Ingestion: Do not induce vomiting. Seek immediate medical attention.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed:

Prolonged and repeated exposure may cause skin and eye irritation

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed:

No data available

Section 5: Fire-Fighting Measures

5.1 Extinguishing Media: When properly stored or handled, this product is non-flammable. In case of a fire in the building, extinguish the fire with water sprays, fire extinguishers, carbon dioxide, foam, or dry chemical.

5.2 Special Hazards Arising from the Substance or Mixture: Carbon monoxide, carbon dioxide, and various oxides or carbon.

5.3 Advice for Fire-Fighters: Wear self-contained breathing systems for firefighting if necessary.

Section 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures: Use appropriate personal protective equipment. Provide adequate ventilation and avoid contact with skin and eyes.

6.2 Environmental Precautions: Prevent entry to sewers and water courses. Notify local authorities immediately if liquid enters sewers or water courses.

6.3 Methods and Material for Containment and Cleaning-up: Absorb spills with absorbent materials. Place absorbed materials into an appropriate container and dispose in accordance with local regulations.

Section 7: Handling and Storage

7.1 Precautions for Safe Handling:

- Do not handle until all safety precautions have been read and understood.
- Ensure good ventilation of the working area.
- Do not eat, drink, or smoke in the working area.
- Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and finishing work.

7.2 Conditions for Safe Storage, Including Any Incompatibilities:

Storage Temperature: 5 °C-30°C (41 °F -87 °F)

Transport Temperature: Ambient

Storage Pressure: Atmospheric

Store container in a cool, well-ventilated area away from sunlight. Keep away from ignition sources, heat, and flame. Never return unused material to original container.

Incompatibilities: strong oxidizing agents and alkalis.

Section 8: Exposure Controls/Personal Protection

8.1 Control Parameters:

Workplace Exposure Limit:

Chemical Name	OSHA PEL	ACGIH TLV (TWA)	ACGIH TLV (STEL)
Ethylene Glycol	40 ppm (100 mg/m ³)	25 ppm [2016]	50 ppm [2016]
Dipropylene Glycol	100 ppm (600 mg/m ³)	100 ppm [1979]	150 ppm [1979]

8.2 Exposure Controls:

Wear Personal Protection Equipment for Protection:

Respiratory Protection: Wear mask and operate in well ventilated area.

Eye Protection: Wear safety goggles.

Skin and Body Protection: Wear appropriate protective clothing.

Hand Protection: Wear protective gloves.

Section 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Appearance: Fluid

Color: Various

Odor: Odorless to mild, characteristic

Odor threshold: Not determined

Solubility in water: Insoluble

Melting point: Not determined

Boiling point: Not determined

Flash point: >100 °C

Auto-ignition temperature: Not determined

Density: Not determined

Viscosity, dynamic: Not determined

pH: 7.8-9.5

Section 10: Stability and Reactivity

10.1 Reactivity: No dangerous reactions known under normal conditions of use.

10.2 Stability: Stable at normal temperatures and pressure.

10.3 Conditions to Avoid: High temperature.

10.4 Materials to Avoid: Strong oxidizing agents, strong bases, strong acids.

10.5 Hazardous Decomposition: None with proper storage and handling.

Section 11: Toxicological Information

11.1 Information on Toxicological Effects

Acute Toxicity:

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethylene glycol	7712 mg/kg (Rat)	LD50 = 9530 µL/kg (Rabbit) LD50 = 10600 mg/kg (Rat) LD50 > 3500 mg/kg (mice)	LC50 > 2.5 mg/L (Rat) 6h

Germ cell mutagenicity: No data available

Reproductive Toxicity: No data available

Carcinogenicity: No data available

Skin Irritation: May cause irritation

Eye Irritation: May cause irritation

Aspiration hazard: No data available

STOT – Single exposure: No data available

STOT – Repeated exposure: Kidney, Liver

11.2 Other Information:

No data available

Section 12: Ecological Information**12.1 Toxicity:**

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Ethylene Glycol	EC50: 6500 - 13000 mg/L, 96h (Pseudokirchneriella subcapitata)	LC50: 14 - 18 mL/L, 96h static (Oncorhynchus mykiss) LC50: = 27540 mg/L, 96h static (Lepomis macrochirus) LC50: = 40761 mg/L, 96h static (Oncorhynchus mykiss) LC50: 40000 - 60000 mg/L, 96h static (Pimephales promelas) LC50: = 16000 mg/L, 96h static (Poecilia reticulata) LC50: = 41000 mg/L, 96h (Oncorhynchus mykiss)	Not Listed	EC50: = 46300 mg/L, 48h (Daphnia magna)

12.2 Persistence and degradability: No data available**12.3 Bio accumulative potential:** No data available**12.4 Mobility in soil:** No data available**12.5 Other Adverse effects:** No data available**Section 13: Disposal Considerations****13.1 Waste Treatment Methods**

- Dispose of in accordance with appropriate local/national government regulations.
- Do not dispose in drains, landfill, sewers, or natural water courses.
- Conform to the applicable laws regarding industrial wastes such as "Waste Disposal and Public Cleansing Law" and relevant local bylaws for disposal.

Section 14: Transport Information**14.1 UN Number:**

Dot/ADR/RID: none

IMDG: none

IATA: none

14.2 UN Proper Shipping Name:

Dot/ADR/RID: not dangerous goods

IMDG: not dangerous goods

IATA: not dangerous goods

14.3 Transport Hazard Class:

Dot/ADR/RID: not regulated

IMDG: not regulated

IATA: not regulated

14.4 Packaging Group:

Dot/ADR/RID: none

IMDG: none

IATA: none

14.5 Environmental Hazards:

Dot/ADR/RID: none

IMDG: none

IATA: none

Section 15: Regulatory Information**15.1 Safety, Health and Environmental Regulations**

SARA Section 355 (extremely hazardous substances): Not applicable

SARA Section 313 (specific toxic chemical listings): Not applicable

LARC, NTP, OSHA Carcinogens: Not applicable

TSCA (Toxic Substances Control Act): Not applicable

Section 16: Other Information

The above information is believed to be correct but does not purport to be inclusive and shall be used only as a guide. We make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their purposes. In no way shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising from using the above information.