

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

071208750

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

071208768 071208776 074202859 074202867

# MATERIAL SAFETY DATA SHEET

## DIAMOND POLISHING PASTE

### 1 - IDENTIFICATION

**Manufacturer:** KerrLab  
**Address:** 1717 West Collins Avenue  
**City, State, Zip:** Orange, CA 92867  
**Telephone:** 1-800-KERR-123  
**24-Hour Emergency:** Chemtrec 1-800-424-9300  
International 1-703-527-3887  
**Date Prepared:** September 6, 2005

### 2 - COMPOSITION INFORMATION

#### Hazardous Ingredients

This product contains no hazardous components as defined in the OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### Other Ingredients

Diamond dust (pure elemental carbon), glycerin and polyethylene glycol (liquid vehicle)

### 3 - PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point:** N/D  
**Specific Gravity (H<sub>2</sub>O = 1):** ~ 1.0  
**Vapor Pressure (mm Hg):** N/A  
**Vapor Density (AIR = 1):** N/A  
**Solubility in Water:** Partial (Liquid Portion)  
**Appearance and Odor:** Light gray, viscous, nearly odorless paste

### 4 - FIRE AND EXPLOSION HAZARD DATA

**Flash Point (Method Used):** Approximately 349 °F (Open Cup)  
**Flammable Limits:** LEL: N/A UEL: N/A  
**Extinguishing Media:** Carbon dioxide, foam, dry chemical  
**Special Fire Fighting Procedures:** None  
**Unusual Fire and Explosion Hazards:** None

### 5 - REACTIVITY DATA

**Stability:** Stable  
**Conditions to Avoid:** None known  
**Incompatibility (Material to Avoid):** N/A  
**Hazardous Decomposition Products:** N/A  
**Hazardous Polymerization:** Will not occur

### 6 - HEALTH HAZARD DATA

#### **Routes of Entry:**

**Skin:** May be irritating to the skin. Repeated contact may cause allergic dermatitis.

**Eyes:** May be irritating to the eyes

**Inhalation:** Prolonged exposure may cause drowsiness.

**Ingestion:** Consult physician

**Carcinogenicity -**

**NTP:** No

**IARC Monographs:** No

**OSHA Regulated Carcinogen:** No

### 7 - EMERGENCY FIRST AID PROCEDURES

**Skin:** Wash with soap and water.

**Eyes:** Flush eyes with water for at least 15 minutes.

**Inhalation:** Remove to fresh air

**Ingestion:** Consult physician

### 8 - PRECAUTIONS FOR SAFE HANDLING & USE

**Steps to be taken in case material is released or spilled:** Wipe up with paper towels and dispose of in a suitable container.

**Waste Disposal Method:** Dispose of in accordance with federal, state, and local regulations.

**Precautions to be taken in handling and storing:** Store in a cool, dry place. Wash thoroughly after handling.

### 9 - CONTROL MEASURES

**Respiratory Protection (Specify Type):** N/A

**VENTILATION:**

**Local Exhaust:** N/A

**Mechanical (General):** Should be sufficient

**Protective Gloves:** Protective gloves are recommended.

**Eye Protection:** Safety glasses

**Other Protective Clothing or Equipment:** None

**Work/Hygiene Practices:** Handle in accordance with good personal hygiene and safety practices. These practices include avoiding unnecessary exposure.

### 10 - TRANSPORTATION INFORMATION

Not DOT regulated.

### 11 - SPECIAL INFORMATION

**HMIS (Hazardous Material Identification System) Rating:**

H0 F0 R0

[HMIS Index: 4 - Severe Hazard; 3 - Serious Hazard;

2 - Moderate Hazard; 1 - Slight Hazard; 0 - Minimum Hazard]

**Note:** This MSDS was prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200) and is to be used only for this product. The information in this MSDS is, to the best of our knowledge, believed to be accurate.

## SAFETY DATA SHEET

### Section 1. Product And Company Identification

**Product Name:** Diamond Polishing Paste

**Product Use:** Dental product

**Manufacturer:** Kerr Corporation  
1717 W. Collins Ave.  
Orange, CA 92867-5422  
U.S.A.

**Information Phone Number:** 1-800-841-1428 (Customer Service)

**Chemical Emergency Phone Number** (Chemical Spills, Leaks, Fire, Exposure or Accident only):  
CHEMTREC 1-800-424-9300 (in the US) 1-703-527-3887 (Outside the US)

**SDS Date of Preparation/Revision:** August 14, 2019

### Section 2. Hazards Identification

**GHS Classification:**  
Eye Irritation Category 2A

**Label Elements:**  
Warning!



**Hazard Phrases**  
Causes serious eye irritation.

**Precautionary Phrases:**  
Wash hands thoroughly after handling.  
Wear protective gloves, protective clothing, eye protection or face protection.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.  
Store locked up.  
Dispose of contents and container in accordance with local and national regulations.

### Section 3. Composition/Information on Ingredients

Component	CAS No.	Amount
Diamond	7782-40-3	1-10%
Isopropyl alcohol	67-63-0	0.1-1%
Sodium 1-(3,4-dihydro-6-methyl-2,4-dioxo-2H-pyran-3-ylidene)ethanolate	4418-26-2	0.1-1%

Component	CAS No.	Amount
Triethanolamine	102-71-6	0.1-1%

#### Section 4. First Aid Measures

**Inhalation:** Remove victim to fresh air. Get immediate medical attention if symptoms occur.

**Skin Contact:** Flush thoroughly with water. Get medical attention if irritation or symptoms of exposure develop. Remove and launder contaminated clothing before re-use.

**Eye Contact:** Rinse thoroughly with water. Get medical attention if irritation occurs and persists.

**Ingestion:** Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious or convulsing person. Keep the victim calm and warm. Get immediate medical attention.

**Most important symptoms and effects, acute and delayed:** Causes serious eye irritation.

**Indication of immediate medical attention and special treatment, if needed:** Immediate medical attention is not required.

#### Section 5. Fire Fighting Measures

**Suitable (and Unsuitable) Extinguishing Media:** Use any media appropriate for the surrounding fire. Cool fire exposed containers with water.

**Specific Hazards Arising from the Chemical:** No data available.

**Special Protective Equipment and Precautions for Fire-fighters:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored. Cool fire-exposed containers with water. Contain water used in firefighting from entering sewers or natural waterways.

#### Section 6: Accidental Release Measures

**Personal precautions, Protective equipment, and Emergency procedures:** Evacuate spill area and keep unprotected personnel away. Avoid contact with eyes, skin and clothing. Wear appropriate protective clothing and equipment. Do not breathe dust or vapors.

**Environmental Precautions:** Avoid releases to the environment. Report spill as required by local and federal regulations.

**Methods and Materials for Containment and Cleaning up:** Prompt cleanup and removal are necessary. Absorb spills with an inert material and place in an appropriate waste disposal container.

#### Section 7. Handling and Storage

**Precautions for Safe Handling:** Prevent contact with eyes, skin and clothing. Always wear impervious gloves, chemical safety goggles, protective clothing, and face mask/face protection when handling this material. Do not eat, drink or smoke in the work area. Do not breathe dust or vapors. Use with adequate ventilation. Remove and wash contaminated clothing before reuse.

Empty containers retain product residues which can be hazardous. Follow all SDS precautions when handling empty containers.

**Conditions for Safe Storage, Including any Incompatibilities:** Store in a cool, dry, well-ventilated area away from direct sunlight. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

## Section 8. Exposure Controls / Personal Protection

### Exposure Limits

Chemical	Exposure Limit
Diamond	None Established
Isopropyl alcohol	400 ppm TWA OSHA
Sodium 1-(3,4-dihydro-6-methyl-2,4-dioxo-2H-pyran-3-ylidene)ethanolate	None Established
Triethanolamine	5 mg/m <sup>3</sup> TWA ACGIH TLV

**Appropriate Engineering Controls:** Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

**Respiratory Protection:** None under normal use conditions with adequate ventilation. For operations where the occupational exposure limits are exceeded, an approved respirator with particulate cartridges is recommended. Equipment selection depends on contaminant type and concentration. Select in accordance with applicable regulations and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

**Hand protection:** Impervious gloves are suggested to prevent skin contact. Contact your glove supplier for selection assistance.

**Eye Protection:** Chemical safety goggles are recommended if contact is possible.

**Skin Protection:** Wear protective clothing as needed to avoid skin contact and contamination of personal clothing.

**Hygiene measures:** Suitable eye and skin washing facilities should be available in the work area.

## Section 9. Physical and Chemical Properties

<b>Appearance:</b>	Off-white paste	<b>Odor:</b>	Odorless
<b>Odor Threshold:</b>	Not available	<b>pH:</b>	Not available
<b>Melting/Freezing Point:</b>	Not available	<b>Boiling Point/Range:</b>	Not available
<b>Flash Point:</b>	Not flammable	<b>Evaporation Rate:</b>	Not available
<b>Flammability: (Solid, Gas)</b>	Not applicable	<b>Flammability Limits:</b>	LEL: Not applicable UEL: Not applicable
<b>Vapor Pressure:</b>	Not available	<b>Vapor Density:</b>	Not available

<b>Relative Density:</b>	Not available	<b>Solubilities:</b>	Not available
<b>Partition Coefficient:</b>	Not available	<b>Autoignition</b>	Not available
<b>(N-Octanol/Water)</b>		<b>Temperature:</b>	
<b>Decomposition</b>	Not available	<b>Viscosity:</b>	Not available
<b>Temperature:</b>			

## Section 10. Stability and Reactivity

**Reactivity:** The product is not expected to be reactive.  
**Chemical Stability:** Stable under normal storage and handling conditions.  
**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.  
**Conditions to avoid:** Reacts with hydrofluoric acid.  
**Incompatible Materials:** Strong bases, strong oxidizing agents.  
**Hazardous decomposition products:** None if stored normally.

## Section 11. Toxicological Information

### Potential Health Effects:

**Inhalation:** None known.  
**Skin Contact:** None known.  
**Eye Contact:** Causes serious eye irritation.  
**Ingestion:** None known.  
**Chronic Hazards:** None known.

**Skin Sensitization:** No adverse effects expected. This product is not expected to cause skin sensitization.

**Respiratory Sensitization:** No data available. This product is not expected to cause respiratory sensitization.

**Germ Cell Mutagenicity:** None of the components are mutagenic.

**Carcinogen:** None of the components are listed as a carcinogen or potential carcinogen by IARC, NTP, ACGIH, or OSHA.

**Developmental / Reproductive Toxicity:** None of the components have been shown to cause reproductive or developmental toxicity.

**Specific Target Organ Toxicity (Single Exposure):** No data available.

**Specific Target Organ Toxicity (Repeated Exposure):** Repeated exposure to Isopropyl alcohol might cause drowsiness or dizziness. Repeated exposure to Triethanolamine might affect liver and kidney.

**Aspiration Toxicity:** No data available.

### Acute Toxicity Values:

Isopropyl alcohol: LD50 Oral rat: 4710 mg/kg; LD50 Dermal rabbit: 12870 mg/kg  
Sodium 1-(3,4-dihydro-6-methyl-2,4-dioxo-2H-pyran-3-ylidene)ethanolate: LD50 Oral rat: 50 mg/kg  
Triethanolamine: LD50 Oral rat: 4190 mg/kg; LD50 Dermal rabbit: >2000 mg/kg

## Section 12. Ecological Information

**Toxicity:** Triethanolamine: 96 hr LC50 Pimephales promelas >1000 mg/L;  
72 hr EC50 Desmodesmus subspicatus 216 mg/L; 24 hr Daphna magna 1386 mg/L

This product is expected to be harmful to the aquatic environment. Releases to the environment should be avoided.

**Persistence and degradability:** Biodegradation is not applicable to inorganic substances.

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** No data available.

**Other Adverse Effects:** No data available.

## Section 13. Disposal Considerations

**Disposal:** For unused solution, flush thoroughly with large quantities of water into sewage disposal system in accordance with Federal, State, and local regulations. For used solution, the waste solution must be characterized by the generator and disposed of in accordance with Federal, State, and local regulations.

**Container Disposal:** Rinse empty container thoroughly with water and discard clean, empty container as general trash or offer for recycling, if available.

## Section 14. Transport Information

	UN Number	UN Proper Shipping Name	Hazard Class(s)	Packing Group	Environmental Hazards
US DOT	None	Not Regulated	None	None	None
Canada TDG	None	Not Regulated	None	None	None
IMDG	None	Not Regulated	None	None	None
IATA/ICAO	None	Not Regulated	None	None	None

## Section 15. Regulatory Information

### U.S. Federal Regulations:

**EPA SARA 311/312 Hazard Classification:** Refer to Section 2 for OSHA Hazard Classification.

**EPA SARA 313: This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):** None

**Protection Of Stratospheric Ozone:** This product is not known to contain or to have been manufactured with ozone depleting substances as defined in 40 CFR Part 82, Appendix A to Subpart A.

**CERCLA SECTION 103:** This product is not subject to CERCLA reporting requirements; however, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**US EPA TSCA Inventory:** All of the components of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory or exempt.

**Canadian Regulations:**

**Canadian Environmental Protection Act:** All of the components in this product are listed on the Domestic Substances List (DSL) or exempt.

**National Pollutant Release Inventory (NPRI):** This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements NPRI: None.

**International Inventories**

**Australia:** All of the components in this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempt.

**China:** All of the components in this product are listed on the Inventory of Existing Chemical Substances in China (IECSC) or exempt.

**European Union:** All the components in this product are listed on the EINECS inventory or exempt.

**Korea:** All of the components in this product are listed on the Korean Existing Chemicals List (KECL) or exempt.

**New Zealand:** All of the components in this product are listed on the New Zealand Inventory of Chemicals (NZIoC) or exempt.

<b>Section 16. Other Information</b>
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NFPA Rating: Fire: 0                      Health: 1                      Instability: 0

**Effective Date:** August 14, 2019

**Supersedes Date:** August 28, 2015

**Revision Summary:** All Sections – New SDS format

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