

SAFETY DATA SHEETS

This SDS packet was issued with item:

071208768

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).

071208750 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 (H₂O = 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.

Section 1. Identification**GHS product identifier** : Diamond Polishing Paste**Other means of identification** : Not available.**Product type** : Solid.**Relevant identified uses of the substance or mixture and uses advised against****Product use** : Dental product:**Area of application** : Professional applications.**Manufacturer** : **Manufacturer for:**
Kerr Corporation
1717 West Collins Avenue
Orange, CA 92867-5422
Telephone no.: 1-800-KERR-123**e-mail address of person responsible for this SDS** : Contact customer service at 1-800-KERR-123 for any questions**Emergency telephone number (with hours of operation)** : CHEMTREC® (24 hours) U.S.: 1-800-424-9300 International: +1-703-527-3887**Section 2. Hazards identification****OSHA/HCS status** : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.**Classification of the substance or mixture** : Not classified.**GHS label elements****Signal word** : No signal word.**Hazard statements** : No known significant effects or critical hazards.**Precautionary statements****Prevention** : Not applicable.**Response** : Not applicable.**Storage** : Not applicable.**Disposal** : Not applicable.**Hazards not otherwise classified** : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Other means of identification : Not available.

CAS number/other identifiers

CAS number : Not applicable.
Product code : Not available.

Ingredient name	Other names	%	CAS number
Water		<84.15	7732-18-5
NA		<0.85	(Trade Secret)
Isopropyl Alcohol		<0.85	67-63-0
Sodium 1-(3,4-dihydro-6-methyl-2,4-dioxo-2H-pyran-3-ylidene)ethanolate		<0.425	4418-26-2
Triethanolamine		<0.425	102-71-6
Diamond		<10.0	7782-40-3

Other principal inert components:

Section 4. First aid measures

Description of necessary first aid measures

Emergency first aid : Consult a physician. Show this safety datasheet to the doctor in attendance. Move out of dangerous area.

Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. No specific treatment is necessary, since this material is not likely to be hazardous.

Inhalation : If breathed in, move person into fresh air. Consult a physician. No specific treatment is necessary, since this material is not likely to be hazardous.

Skin contact : Wash off with soap and plenty of water. Consult a physician. No specific treatment is necessary, since this material is not likely to be hazardous.

Ingestion : Never give anything by mouth to an unconscious person. Rinse mouth with water. Stop if the exposed person feels sick as vomiting may be dangerous. Get medical attention if adverse health effects persist or are severe.

Indication of immediate medical attention and special treatment needed if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : In case of major fire and large quantities: No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use water Spray, dry chemical, carbon dioxide, or alcohol-resistant foam.
- Unsuitable extinguishing media** : None known.
- Specific hazards arising from the chemical** : No specific fire or explosion hazard.
- Hazardous thermal decomposition products** : Information not available.
- Special protective actions for fire-fighters** : In case of major fire and large quantities: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions protective equipment and emergency procedures

- For non-emergency personnel** : Low release. For professional use only. Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. See section 8.
- For emergency responders** : Low release. See also the information in "For non-emergency personnel".
- Environmental precautions** : Low release. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

- Small spill** : Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.
- Large spill** : Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. For precautions see section 2. No special handling procedures are required.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container keep container closed in a dry and well ventilated area and kept upright to prevent leakage. Recommended storage temperature: 2-8 dg. C. No special storage requirements.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	OSHA TWA	ACGIH TWA	CAS number
Water NA Isopropyl Alcohol	PEL: 300 ppm PEL: 400 ppm	TLV:100 ppm TLV: 200ppm STLV: 400 ppm.	7732-18-5 (Trade Secret) 67-63-0
Sodium 1-(3,4-dihydro-6-methyl-2,4-dioxo-2H-pyran-3-ylidene)ethanolate			4418-26-2
Triethanolamine		TLV: 5mg/m ³	102-71-6 7782-40-3
Diamond			

Appropriate engineering controls : No special measures are required for small quantities under normal and intended conditions of product use.

Environmental exposure controls : No special measures are required for small quantities under normal and intended conditions of product use.

Individual protection measures

Hygiene measures : No special measures are required for small quantities under normal and intended conditions of product use.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Safety glasses with side-shields are not required.

Skin protection

Hand protection : Handle with Gloves. Gloves must be inspected prior to use. Under proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Protective garments nor normally required.

Body protection : Impervious clothing. Protective garments not normally required.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination or ty ABEK (EN 14387) respirator cartridges as backup to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

Section 9. Physical and chemical properties

Appearance

Physical state	: Paste
Color	: Off- White.
Odor	: No Odor.
Odor threshold	: Not available.
pH	: Not available
Melting point	: -100.00 C

Boiling point	: Not available.
Flash point	: Not available.
Evaporation rate	: Not available.

Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.

Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: Not available.
Solubility	: Not available.

Solubility in water	: Negligible
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available
Specific Gravity	: ~ 1.000
SADT	: Not available.
Viscosity	: Not available.

Physical/chemical properties comments	: Not available
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Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.

Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization will not occur.
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Materials to avoid	: No Incompatibility. (Reacts with hydrofluoric acid: soluble in HF)
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Incompatible materials	: May react with strong bases, strong oxidizing agents.
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Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
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Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Conclusion/Summary:

Irritation/Corrosion

Skin Corrosion/irritation.
Serious eye damage
Eye irritation.

Sensitization

Not available.

Conclusion/Summary

Skin

Mutagenicity

Not available.

Conclusion/Summary

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.

Section 11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product presents at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No components of this product present at levels greater than or equal to 0.1% as identified as a known or anticipated carcinogen by NTP.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
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Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Not required/not conducted			

Persistence and degradability

Not available.

Date of issue/Date of revision	: 08/28/2015	Date of previous issue	: No previous validation	Version	: 1	7/8
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Section 13. Disposal considerations

Disposal methods : Offer surplus and non-recyclable solution to a license disposal company. Contaminated packaging: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None
RCRA U-Series: None

Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL: Not available.
73/78 and the IBC Code

Section 15. Regulatory information

U.S. Federal regulations: Not Listed

SARA 302/304

Composition/information on ingredients

Trade Secret Material Yes 1000LB

SARA 304 RQ : Not applicable.

SARA311/312

Classification : Not applicable.

SARA313 **California Prop.65**

Isopropyl Alcohol None.

Trade Secret

Section 16. Other information: None.

Date of issue/Date of revision

: 08/28/2015

Date of previous issue

: No previous validation

Version : 1

8/8

United States

