

**EMS CATALOG NO: 50370-10 to 50370-80**  
**EMS PRODUCT: Diamond Compound Paste**  
**DATE: October 18, 2006**  
**PAGE NUMBER: One of Four**

## MATERIAL SAFETY DATA SHEET

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

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### FOR PRODUCT AND SALES INFORMATION

CONTACT ELECTRON MICROSCOPY SCIENCES OFFICE ABOVE.

### PRODUCT IDENTIFICATION

**PRODUCT NAME:** Diamond Paste  
**DESCRIPTION:** Abrasive polishing paste

### COMPOSITION AND INFORMATION ON INGREDIENTS

**NAME:** Polyalkylene glycol monobutyl ether  
**CAS#:** 9038-95-3  
**% BY WEIGHT:** 70-95  
**OSHA PEL:** Not established  
**ACGIH TLV:** Not established

**NAME:** Silicon Dioxide  
**CAS#:** 112945-52-5  
**% BY WEIGHT:** 5-20  
**OSHA PEL:** 20 mppcf  
**ACGIH TLV:** 10 mg/m<sup>3</sup>

## HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Prolonged or repeated contact with this product may cause redness, dryness, or itchiness of the skin.

### POTENTIAL HEALTH EFFECTS:

**Eye:** Moderate to severe irritation seen as swelling and redness of the conjunctiva.

**Skin:** Mild irritation, redness, or dryness.

**Ingestion:** No evidence of adverse effects from available information.

**Inhalation:** No evidence of adverse effects from available information.

### CHRONIC HEALTH EFFECTS/CARCINOGENICITY:

**NTP:** Not listed

**OSHA:** Not listed

**IARC:** Not listed

**MEDICAL RESTRICTIONS:** May aggravate existing dermatitis.

## FIRST AID MEASURES

**EYE CONTACT:** Flush with water for at least 15 minutes while holding eyelids open. Call a physician.

**SKIN CONTACT:** Wash thoroughly with soap and water.

**INHALATION:** Remove to fresh air.

**INGESTION:** No harmful effects are expected.

## FIRE AND EXPLOSION DATA

**FIRE FIGHTING:** Do not direct a solid stream of water into hot burning pools; use self contained breathing apparatus and protective clothing.

**EXTINGUISHING MEDIA:** All purpose-type or alcohol-type foam, carbon dioxide, or dry chemical.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon monoxide, carbon dioxide, and vapors.

**FLASH POINT:** 194°F

**LOWER FLAMMABLE LIMIT:** Not established

**UPPER FLAMMABLE LIMIT:** Not established

**AUTOIGNITION:** Not established

**CONDITIONS OF FLAMMABILITY:** May produce a floating fire hazard in extreme fire conditions.

### EXPLOSION DATA:

**IMPACT SENSITIVITY:** Not listed.

**STATIC DISCHARGE:** Not listed.

## ACCIDENTAL RELEASE MEASURES

**GENERAL:** Wear suitable protective clothing, especially eye protection.

**SMALL SPILL:** Wipe up with absorbent material.

**LARGE SPILL:** Collect for disposal.

### HANDLING AND STORAGE

**HANDLING:** Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Wash thoroughly after handling.

**STORAGE:** Store away from heat and flame. Keep container closed when not in use.

### EXPOSURE CONTROLS/PERSONAL PROTECTION

**EXPOSURE LIMITS:** See section labeled COMPOSITION ON INGREDIENTS

**VENTILATION:** General ventilation is adequate for use at low temperatures, but if material is at temperatures, or if mists are being generated, use local ventilation to keep material out of workplace air.

**RESPIRATORY PROTECTION:** Non required at low temperatures; If mists are present, use NIOSH-approved respirator with organic vapor cartridge.

**EYE PROTECTION:** Splash proof goggles.

**SKIN PROTECTION:** Polyvinyl chloride – coated

**OTHER:** Eyebath and safety shower should be available.

### PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE AND APPEARANCE:** Opaque Paste

**COLOR:** Varies with abrasive type and micron size

**ODOR:** Mild characteristic odor.

**pH (1% SOLN/WATER):** Not applicable.

**BOILING POINT:** Decomposes above 392 deg F

**MELTING POINT:** Not listed.

**SPECIFIC GRAVITY:** 0.971, water = 1

**VAPOR PRESSURE:** Less than 0.01 mm Hg.

**VAPOR DENSITY:** 9.3, air = 1

**VOLATILITY:** Not listed.

**SOLUBILITY:** Soluble.

### STABILITY AND REACTIVITY DATA

**STABILITY:** Stable

**REACTIVITY:** Normally unreactive.

**INCOMPATIBILITY:** Strong bases at high temperatures, strong acids, strong oxidizing agents and materials reactive with hydroxyl compounds.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**DECOMPOSITION:** Combustion may produce carbon monoxide, carbon dioxide, and vapors.

## TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY:

**ORAL:** Not listed.

**INHALATION:** Not listed.

**DERMAL:** Not listed.

## ECOLOGICAL INFORMATION

No information available.

## DISPOSAL CONSIDERATIONS

**RCRA HAZARDOUS WASTE:** Not defined as hazardous under RCRA.

**WASTE DISPOSAL:** Incinerate in a furnace where permitted in accordance with Federal, State, and local regulations.

## TRANSPORT INFORMATION

**DOT CLASSIFICATION:** Non-hazardous.

**IDENTIFICATION:** Not applicable.

**SPECIAL PROVISIONS FOR TRANSPORT:** Not applicable.

## OTHER REGULATORY INFORMATION

### FEDERAL AND STATE REGULATIONS:

**FLORIDA:** Not listed.

**CALIFORNIA-65:** Not listed.

**PENNSYLVANIA RTK:** Not listed.

**MASSACHUSETTS RTK:** Contains MSL extraordinarily hazardous substance  
Propylene Oxide, 0.00100%, CAS # 75-56-9.

**TSCA 8 (b)INVENTORY:** All ingredients of this product are on the TSCA Inventory.

**SARA TITLE III:** Contains a maximum of 5.00% glycol ethers, which appear in section 313.

### OTHER CLASSIFICATIONS:

**WHMIS (CANADA):** Not listed.

**HMIS (U.S.A.):**

**HEALTH HAZARD:** 1

**FIRE HAZARD:** 1

**REACTIVITY:** 1

**PERSONAL PROTECTION:**