

EMS CATALOG #: 50376-01  
EMS PRODUCT: GLENOIL LUBE  
DATE: OCT 19, 2006  
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### 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.

Electron Microscopy Sciences assumes no responsibility for personal injury or property damage to vendees, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of the material.

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### CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER/SUPPLIER:

Electron Microscopy Sciences

PRODUCT NAME: GLENOIL LUBE

DESCRIPTION: Lapping Vehicle

### COMPOSITION/INFORMATION ON INGREDIENTS

NAME:	CAS #	PERCENT	OSHA PEL	ACGIH TLV
Ethylene glycol	107-21-1	70-100	50ppm	50ppm
Ethylene glycol monobutyl ether	111-76-2	0-20	50ppm	50ppm
Methyl alcohol	67-56-1	0-20	200ppm	200ppm

### HAZARDS IDENTIFICATION

## EXPLOSION DATA

IMPACT SENSITIVITY: Not listed.

STATIC DISCHARGE: Not listed.

## ACCIDENTAL RELEASE MEASURES

- GENERAL: Eliminate ignition sources. Avoid eye or skin contact. Place leaking containers in well-ventilated area.
- SMALL SPILLS: Use absorbent material and collect for disposal. Avoid runoff into storm sewers.
- LARGE SPILLS: Dike and contain spill; collect for disposal. Avoid runoff into storm sewers.

## HANDLING AND STORAGE

- HANDLING: Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Wash thoroughly after handling.
- STORAGE: Store in a cool dry place away from heat and flame. Keep container closed when not in use.

## EXPOSURE CONTROLS / PERSONAL PROTECTION

- EXPOSURE LIMITS: See Section Labeled Composition / Information on Ingredients.
- VENTILATION: General ventilation is adequate at room temperature, but if material is at elevated temperatures, or if mists are being generated, use local ventilation to keep material out of workplace air.
- RESPIRATORY PROTECTION: Use NIOSH-approved breathing air equipment.
- EYE PROTECTION: OSHA-approved safety glasses.
- SKIN PROTECTION: PVC-coated or rubber gloves.
- OTHER: Eye bath and safety shower should be available.

## PHYSICAL AND CHEMICAL PROPERTIES

- PHYSICAL STATE: Clear liquid.
- COLOR: Red.
- ODOR: Characteristic.
- SPECIFIC GRAVITY: 1.10, water=1
- VAPOR PRESSURE: 0.1MM Hg @ 68°F.
- VAPOR DENSITY: 2.1, air=1
- EVAPORATION RATE: 0.02, butyl acetate=1
- VOLATILE FRACTION

BY WEIGHT: 100  
BOILING POINT: 284°F  
MELTING POINT: 9°F  
DYNAMIC VISCOSITY: 50 centipoise.  
KINEMATIC VISCOSITY: Not listed.  
SOLUBILITY IN WATER: Soluble  
Ph: Not applicable.

### STABILITY AND REACTIVITY

STABILITY: Stable.  
REACTIVITY: Normally un-reactive.  
INCOMPATIBILITY: Sulfuric acid and other dehydrating agents, nitric acid, oxygen, hydrogen peroxide, perchloric acid, chromium trioxide, and other strong oxidizing agents; acetic anhydride.  
HAZARDOUS POLYMERIZATION: Will not occur.  
DECOMPOSITION: Carbon monoxide and carbon dioxide.

### TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:  
ORAL: Lethal dose for humans 1.6g/kg [ethylene glycol].  
INHALATION: Not listed.  
DERMAL: LD-50 (rabbit) 19 g/kg [ethylene glycol].

### ECOLOGICAL INFORMATION

No information available.

### DISPOSAL INFORMATION

RCRA HAZARDOUS WASTE: Hazardous solid waste under RCRA.  
WASTE DISPOSAL: Incinerate in furnace where permitted under Federal, State and local regulations.

### TRANSFORMATION INFORMATION

DOT HAZARD CLASS: Not regulated.  
PROPER SHIPPING NAME: None  
IDENTIFICATION #: None

## REGULATORY INFORMATION

### FEDERAL EPA

SARA TITLE III: Ethylene glycol, glycol ethers, methyl alcohol.

TSCA STATUS: All ingredients of this product are on the TSCA inventory.

WHMIS CLASSIFICATION: Class D2A.

### STATE RIGHT TO KNOW

CALIFORNIA-65: Contains trace levels of acetaldehyde and dioxane.

FLORIDA: Not listed.

MASSACHUSETTS: Hazardous substances ethylene glycol and 2-butoxyethanol. Extraordinarily hazardous substances dioxane and methanol.

NEW JERSEY: Not listed.

PENNSYLVANIA: Ethylene glycol and 2-butoxyethanol.

## OTHER

HMIS CODE: Health 2, Flammability 2, Reactivity 0

(0=minimal hazard, 1=slight hazard, 2=moderate hazard, 3=serious hazard, 4=extreme hazard)

PROCESS HAZARD: Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperatures and pressure may result in ignitions without obvious ignition sources.