

MATERIAL SAFETY DATA SHEET

MICROFILM

Die Lubricant

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

	<u>CAS#</u>	<u>PEL</u>	<u>TLV</u>	<u>%</u>
Denatured Ethyl Alcohol	111-87-5	1000 ppm	1000 ppm	10-15
Octyl Alcohol	111-87-5	N/A	N/A	10-15

3 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 173.3 °F (78.5 °C)
Specific Gravity (H₂O = 1): 0.85
Vapor Pressure (mm Hg): 40mm Hg
Melting Point: N/A
Vapor Density (AIR = 1): 1.59
Solubility in Water: Soluble
Reactivity in Water: N/A
Appearance and Odor: Clear, colorless liquid with a fragrant, fruity odor.

4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 55 °F (12.8 °C)
Flammable Limits: LEL: 4.3 UEL: 19
Extinguishing Media: Alcohol foam, dry chemical, carbon dioxide, water spray.
Special Fire Fighting Procedures: None
Unusual Fire and Explosion Hazards: None

5 - REACTIVITY DATA

Stability: Stable
Conditions to Avoid: N/A
Incompatibility (Material to Avoid): Oxidizing materials can cause a reaction.
Hazardous Decomposition Products: Combustion will produce carbon dioxide and sometimes carbon monoxide.
Hazardous Polymerization: Will not occur

6 - HEALTH HAZARD DATA

Routes of Entry:
Eyes: May cause a mild irritation.
Skin Contact: May cause a mild irritation.
Inhalation: May cause irritation of the throat.
Ingestion: May be poisonous by ingestion.
Carcinogenicity - NTP: No
IARC Monographs: No OSHA Regulated Carcinogen: Yes

7 - EMERGENCY FIRST AID PROCEDURES

Skin: Wash with soap and water.
Eyes: Irrigate immediately and thoroughly wash with water for at least 15 minutes. Get medical attention if any symptoms are present after washing.
Inhalation: Remove to fresh air.
Ingestion: Do not give liquids if victim is unconscious. Contact physician.

8 - PRECAUTIONS FOR SAFE HANDLING & USE

Steps to be taken in case material is released or spilled: Eliminate all ignition sources. Flush spill away with water spray. Small spills may be collected with absorbent material.
Waste Disposal Method: Incineration or landfill. Dispose of in accordance with all local regulations.
Precautions to be taken in handling and storing: Flammable liquid. Keep away from heat, sparks, and open flame. Keep container closed.
Other precautions: Use according to directions.

9 - CONTROL MEASURES

Respiratory Protection (Specify Type): Not needed
VENTILATION:
Local Exhaust: Recommended to keep exposure under 1000ppm.
Mechanical (General): Usually sufficient
Protective Gloves: Recommended
Eye Protection: Safety glasses with side shields
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

Regulated: DOT, IATA, IMO
Proper Shipping Name: Alcohol, N.O.S. (Ethyl, Octyl)
Hazard Class: 3
Identification Number: 1987
Packing Group: II
Label: Flammable Liquid

11 - SPECIAL INFORMATION

HMIS (Hazardous Material Identification System) Rating:
H0 F3 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.