

**MATERIAL SAFETY DATA SHEET**

EFFECTIVE DATE: 7/17/07

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I. PRODUCT IDENTIFICATION

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PRODUCT NAME: CHEMOLUBE H - WATER SOLUTION  
 CHEMICAL NAME: Mixture  
 CHEMICAL FAMILY: Glycol base hydraulic fluid  
 FORMULA: Not applicable/mixture  
 SYNONYMS: Fire resistant hydraulic fluid

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II. TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

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BOILING POINT @ 760 mm Hg >212°F  
 SPECIFIC GRAVITY (H2O= 1) @ 20/20° C 1.078  
 VAPOR PRESSURE mm Hg @ 20° C 10  
 MELTING POINT < 0° C  
 VAPOR DENSITY (Air = 1) Same as water  
 EVAPORATION RATE (BUTYL ACETATE = 1) Same as water  
 SOLUBILITY IN WATER: Completely  
 APPEARANCE: Light straw to amber  
 ODOR: Glycol  
 pH: 9.45 (approx)  
 POUR POINT: < -40° F

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III. INGREDIENTS

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%	Component Material	CAS NO.	Exposure Limit
40-60	DIETHYLENE GLYCOL	111-46-6	None established
40-60	WATER	7732-18-5	None established
< 3	PROPRIETARY CORROSION INHIBITORS AND ANTI-WEAR PACKAGE containing phosphates, antiwear additives, and alkyl amines including Diethylethanolamine, CAS NO 100-37-8.		

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IV. FIRE AND EXPLOSION HAZARD

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FLASH POINT (Method Used) None Cleveland Open Cup, ASTM D 93

FLAMMABLE LIMITS: Not determined

Contains approx. 40% water. If the water evaporates, remaining material may be ignitable. (Flash Point 280°F, COC; Auto-ignition temp 775° F).

EXTINGUISHING MEDIA: water, foam, fog, or dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Use self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

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V. REACTIVITY DATA

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STABILITY: Stable

CONDITIONS TO AVOID: None known

INCOMPATIBILITY (Materials to avoid): Hydrochloric, nitric, sulfuric and other strong acids.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Combustion may produce carbon monoxides, carbon dioxides, and nitrogen oxides.

HAZARDOUS POLYMERIZATION: Will Not Occur

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VI. HEALTH HAZARD DATA

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NO THRESHOLD LIMIT VALUE HAS BEEN ESTABLISHED BY OSHA OR ACGIH. THE MAJOR ROUTES OF ENTRY ARE INHALATION, INGESTION, SKIN AND EYE CONTACT.

ACUTE EFFECTS:

INHALATION: Prolonged breathing in poorly ventilated area with high vapor content may cause upper respiratory tract irritation and/or slight nausea and headache.

INGESTION: The estimated lethal dose to an adult for diethylene glycol is about 1.0 to 1.2 ml per kg or about 4 ounces (½ cup). Ingestion may cause nausea, diarrhea, dizziness, drowsiness, kidney damage and possible coma. Severe kidney and liver damage which may be fatal if not promptly treated, may occur.

SKIN: Prolonged skin contact may cause sensitization and allergic reaction.  
EYE: May cause moderate to severe irritation, discomfort or pain signified by excess blinking and lacrimating with redness and swelling of the conjunctiva.  
Vapor may cause temporary foggy vision.

CHRONIC EFFECTS:

There are no known reported effects from chronic exposure except for effects similar to those experienced from acute exposure

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove to fresh air and aid in breathing if necessary.  
INGESTION: Give two glasses of water and induce vomiting if conscious. Get immediate medical attention.  
SKIN: Remove contaminated clothing and flush with lots of water.  
EYE: Flush for 15 minutes with water. Obtain medical attention.

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VI. PERSONAL PROTECTION

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RESPIRATORY PROTECTION (Specify type): None are normally required except under unusual circumstances. If vapors or mists are generated, wear a NIOSH/MSHA approved organic vapor respirator or air equipment for cleaning large spills or upon entry into tanks or confined spaces.

VENTILATION: Local exhaust if misting, otherwise general ventilation is adequate.

PROTECTIVE GLOVES: Natural rubber, nitrile, neoprene or polyvinyl chloride coated if skin is sensitive.

EYE PROTECTION: Safety glasses with side shields; anti-splash goggles if splashing is probable.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Eye bath and safety shower.

WORK/HYGIENIC PRACTICES: Always use good housekeeping practices to prevent slipping or skin contact.

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VIII. SPILL OR LEAK PROCEDURE

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STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: CHEMOLUBE H is not a regulated product. Spills should be contained and reused or absorbed and placed in suitable containers for disposal depending on condition.

WASTE DISPOSAL METHOD: Follow federal, state and local regulations. Incinerate or bury at a licensed facility. Do not discharge into waterways or sewer systems without proper authority.

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IX. STORAGE AND HANDLING

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Use approved ventilated storage and keep containers closed. Wash thoroughly after handling. Spills will be slippery. Prolonged or repeated breathing of mist or vapor from heated material may be harmful.

OTHER PRECAUTIONS: Wear protective gloves, goggles, aprons, etc. May be harmful or fatal if swallowed. If symptoms persist, always call a physician.

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X. REGULATORY INFORMATION

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

CERCLA REPORTABLE QUANTITY: None

CARCINOGENS AS DEFINED BY NTP, IARC, OR OSHA: None

SARA TITLE III SECTION 313: This product contains no toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372

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