

Hytek Industries**Safety Data Sheet
Chemolube H Hydraulic Fluid**

1. Identification**Product Identifier used on the label****Chemolube H Hydraulic Fluid****Other means of identification**

Chemical family: Polymer, preparation

Recommended use of the chemical and restriction on use

Recommended use: Chemical

Restrictions on use: None

Details of the supplier of the safety data sheetCompany:

Hytek Industries

P.O. Box 56

Oceanport, NJ 07757 USA

Phone: 732-229-5730

Email: info@hytekind.com**Emergency telephone number**CHEMTREC 1-800-424-9300

2. Hazards Identification**According to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR Part 1910.1200**

Physical:	Health:
None	Acute Toxicity Category 4 (Oral) Eye Irritant Category 2 Skin Sensitizer Category 1 Specific Target Organ Toxicity – Repeat Exposure Category 2 Carcinogen Category 2

Label Elements

Hytek Industries**Safety Data Sheet
Chemolube H Hydraulic Fluid**

**Signal Word:**

Warning

Hazard Statement:

H302 Harmful if swallowed

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

H373 May cause damage to the kidney, liver and blood through prolonged or repeated ingestion.

Precautionary Statements (Prevention):

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe mist or vapor.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves, clothing and eye protection.

Precautionary Statements (Response):

P308+P313 IF exposed or concerned: Get medical attention.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P333 + P313 If skin irritation or rash occurs: Get medical attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical attention.

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

P330 Rinse mouth

Precautionary Statements (Storage):

P405 Store locked up.

Precautionary Statements (Disposal):

P501 Dispose of contents and container in accordance with local, regional and national regulations.

3. Composition/ Information on Ingredients

Chemical Name	CAS Number	Content w/w
---------------	------------	-------------

Hytek Industries**Safety Data Sheet
Chemolube H Hydraulic Fluid**

Diethylene Glycol	111-46-6	75-95%
Diethanolamine	111-42-2	<3%
Sodium 2-mercaprobenzothiazole	2492-26-4	<1%

The exact concentration has been withheld as a trade secret.

4. First-Aid measures

Eye: Flush eyes with plenty of water for at least 15 minutes while holding the eyelids apart. Get medical attention if irritation develops or persists.

Skin: Wash skin thoroughly with soap and water for several minutes. Get medical attention if irritation or rash develops or persists. Remove contaminated clothing and launder clothing before re-use.

Ingestion: Seek immediate medical attention for large ingestions. Call local poison control center or go to an emergency department. Never give anything by mouth to or induce vomiting in an unconscious or drowsy person.

Inhalation: Remove person to fresh air and keep comfortable for breathing. If irritation develops or persists, get medical attention.

Most important Symptoms: Causes serious eye irritation, redness and tearing. May cause skin and respiratory irritation. Ingestion may cause abdominal discomfort or pain, nausea, vomiting, dizziness, drowsiness, malaise, blurring of vision, irritability, back pain, decrease in urine output, kidney failure, and central nervous system effects. May cause an allergic skin reaction. May cause damage to the kidney, liver and blood through prolonged or repeated ingestion. Diethanolamine is suspected of causing cancer. Risk of cancer depends on level and duration of exposure.

Indication of immediate medical attention/special treatment: Immediate medical attention is required for large ingestions.

5. Fire-fighting Measures**Suitable (and Unsuitable) Extinguishing Media:**

Water spray, dry powder and foam.

Special hazards arising from the substance or mixture:

Decomposition will produce oxides of carbon.

Special Protective Equipment and Precautions for Fire-Fighters:

Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water spray.

Hytek Industries**Safety Data Sheet
Chemolube H Hydraulic Fluid**

6. Accidental release measures**Personal Precautions, Protective Equipment, and Emergency Procedures:**

Avoid contact with eyes, skin and clothing. Do not breathe vapor or mist. Wear appropriate personal protective equipment as described in section 8.

Environmental precautions

Avoid releases to the environment. Report releases to the appropriate authority.

Methods and material for containment and cleaning up

Contain and collect with an inert absorbent and transfer to a suitable container for disposal. Clean spill area with water.

7. Handling and Storage**Precautions for safe handling**

Avoid breathing vapors or mists. Use adequate ventilation. Wash exposed skin thoroughly after use. Keep containers closed when not in use. Use with good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area away from incompatible materials. Keep away from excessive heat and ignition sources. Store away from oxidizers.

8. Exposure Controls/Personal Protection**Exposure Guidelines:**

Diethylene Glycol	None Established
Diethanolamine	0.2 ppm TWA (inhalable fraction and vapor) OSHA PEL
Sodium 2-mercaprobenzothiazole	None Established

Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposure below occupational exposure limits.

Respiratory Protection: In operations where exposure limits are exceeded, an approved respirator with organic vapor cartridges or supplied air respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

Skin Protection: Impervious gloves are required if contact is possible.

Eye Protection: Chemical safety goggles should be worn where contact is possible.

Other: Impervious coveralls, apron and boots are required if needed to avoid skin contact and contamination of personal clothing. An eye wash should be available in the immediate work area.

9. Physical and Chemical Properties

Hytek Industries**Safety Data Sheet
Chemolube H Hydraulic Fluid**

Appearance and Odor: Light straw to amber liquid with a glycol odor.

Physical State: Liquid	Odor Threshold: Not established
Vapor Density: Not available	Initial Boiling Point/Range: >100°C (212°F)
Solubility In Water: Complete	Vapor Pressure: ~1
Relative Density: 1.119	Evaporation Rate: Nil
Melting/Freezing Point: <0°C (32°F)	pH: 9.25-9.45 @ 25°C (77°F)
VOC Content: Not available	Octanol/Water Coefficient: Not available
Solubility: Not determined	Decomposition Temperature: Not available
Viscosity: Not determined	Flammability (solid, gas): Not available
Flashpoint: 137.8°C (280°F)	Autoignition Temperature: Not determined
Flammable Limits: LEL: Not available UEL: Not available	

10. Stability and Reactivity**Reactivity**

Not reactive under normal storage and handling conditions

Chemical stability

Stable under normal storage and handling conditions

Possibility of hazardous reactions

None known.

Conditions to avoid

Avoid extreme temperatures.

Incompatible materials

Strong acids, strong bases, strong oxidizing-agents and reducing agents.

Hazardous decomposition products

Decomposition may release oxides of carbon.

11. Toxicologist information**Primary routes of exposure****HEALTH HAZARDS:**

Hytek Industries**Safety Data Sheet
Chemolube H Hydraulic Fluid**

Eye: May cause serious irritation, tearing, and redness. Corneal damage is unlikely.

Skin: May cause irritation. May cause an allergic skin reaction.

Ingestion: Ingestion may cause abdominal discomfort or pain, nausea, vomiting, dizziness, drowsiness, malaise, blurring of vision, irritability, back pain, decrease in urine output, kidney failure, and central nervous system effects.

Inhalation: Prolonged contact can cause nausea, headache and vomiting.

Sensitization: This product is classified as a skin sensitizer.

Chronic: Diethylene glycol: In a long term feeding study, rats given in 4% by weight in food showed an increase in mortality rates, a marked depression of growth rate, bladder stones, severe kidney damage, and moderate liver damage.

Carcinogenicity: Diethanolamine is listed by IARC as a group 2B carcinogen (possible human carcinogen). None of the other components present are listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, or OSHA.

Germ Cell Mutagenicity: None of the components of this product are suspected to cause germ cell mutagenicity.

Reproductive Toxicity: None of the components are classified as reproductive toxins.

Numerical Measures of Toxicity:

Product ATE: Oral LD50: 528 mg/kg (calculated using the point estimate for diethylene glycol)

Diethylene Glycol: Oral rat LD50 - 12,565 mg/kg; Skin rabbit LD50 – 11,890 mg/kg

Diethanolamine: Oral rat LD50: 1100 mg/kg, inhalation rat LC0: 3.35 mg/L/4 hr

Sodium 2-mercaprobenzothiazole: Oral rat LD50: 2100 mg/kg, dermal rabbit LD50 > 7940 mg/kg

12. Ecological Information**Toxicity**

Diethylene Glycol: Lepomis macrochirus (Bluegill fish) LC50: 1,000 mg/L/96 hr

Diethanolamine: Pimephales promelas LC50: 1370 mg/L/96 hr

Sodium 2-mercaprobenzothiazole: Oncorhynchus mykiss LC50: 0.73 mg/L/96 hr

This product is not expected to cause harm to the environment.

Persistence and degradability

Diethylene Glycol: Readily biodegradable -90% in 28 days

Diethanolamine: Readily biodegradable - 50% in 28 days

Sodium 2-mercaprobenzothiazole: Not readily biodegradable - 2% in 35 days

Bioaccumulative potential

Hytek Industries**Safety Data Sheet
Chemolube H Hydraulic Fluid**

No data available.

Mobility in soil

No data available.

Other Adverse Effects

None known

13. Disposal considerations**Waste disposal of substance:**

Dispose of in accordance with national, state and local regulations. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

RCRA: None

14. Transport Information

	UN Number	UN Proper Shipping Name	Hazard Class(s)	Packing Group	Environmental Hazards
DOT	None	Not Regulated	None	None	None
ADR/RID	None	Not Regulated	None	None	None
IMDG	None	Not Regulated	None	None	None
IATA/ICAO	None	Not Regulated	None	None	None

15. Regulatory Information**U.S. Federal Regulations**

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): This product has an RQ of 3,333 lbs (based on the RQ of Diethanolamine of 100 lbs present at <3%). Some states have more stringent reporting requirements. Report all spills in accordance with local, state and federal regulations.

Toxic Substances Control Act (TSCA): All of the components of this product are listed.

Superfund Amendments and Reauthorization Act (SARA) Title III Information:

SARA Section 311/312 (40 CFR 370) Hazard Categories: Acute Health, Chronic Health

Hytek Industries

Safety Data Sheet
Chemolube H Hydraulic Fluid

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372): Diethanolamine <3%

State Regulations

California: This product contains substances known to the state of California to cause cancer and/or reproductive toxicity.

16. Other Information

NFPA Hazard codes:

Health: 2 Fire: 1 Reactivity: 0 Special:

HMIS III rating

Health: 2* Flammability: 1 Physical hazard: 0

***Chronic Health Hazard**

Date of current revision: 6/13/16

Revision History: Updated format and all sections to comply with OSHA Hazcom 2102 regulations.

Date of previous revision: 7/17/05

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION SET MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION FURNISHED BY OUR COMPANY ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.