

Safety Data Sheet
CHEMOLUBE H Special

Revision date 1/10/2016

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1. Identification

Product Identifier used on the label

CHEMOLUBE H Special

Recommended use of the chemical and restriction on use

Recommended use*: Chemical

*The “recommended use” identified for this product is provided solely to comply with a US Federal requirement and is not part of the seller’s published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller’s sales agreement.

Details of the supplier of the safety data sheet

Company:

Hytek Industries
P.O. Box 56
Oceanport, NJ 07757 USA
Ph: 732-229-5730
Email: info@hytekind.com

Emergency telephone number

CHEMTREC 1-800-424-9300

Other means of identification

Chemical family: Polymer, preparation
Synonyms: Fire resistant hydraulic fluid

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR Part 1910.1200

Classification of product:

| | | |
|------------|---|---|
| Acute Tox. | 4 | Acute Toxicity |
| STOT RE | 2 | Specific target organ toxicity- repeated exposure |

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Label Elements

Signal Word:
Warning

Hazard Statement:

H302 Harmful if swallowed
H373 May cause damage to organs (kidney) through prolonged or repeated exposure.

Precautionary Statements (Prevention):

P260 Do not breathe dust/gas/mist/vapors.
P270 Do not eat, drink or smoke when using this product.
P264 Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

P311 Call a POISON CENTER or doctor/physician.
P301 + P330 If SWALLOWED: rinse mouth.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection point.

Hazards not otherwise classified

High risk of slipping due to leakage/spillage of product.

According to regulation 1994 OSHA Hazard Communication Standard: 29 CFR Part 1910.1200

Emergency overview

Harmful if swallowed.

Contains diethylene glycol which has been shown to cause kidney and central nervous system effects following oral ingestion.

Use with local exhaust ventilation.

Wear protective clothing.

Wear full face shield if splashing hazard exists.

Avoid inhalation of mists/vapors.

3. Composition/ Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR Part 1910.1200

| <u>CAS Number</u> | <u>Content (W/W)</u> | <u>Chemical name</u> |
|-------------------|----------------------|----------------------|
| 111-46-6 | >=25.0<50.0% | diethylene glycol |

According to Regulation 1994 OSHA Hazard Communication Standard: 29 CFR 1910.1200

CAS Number
111-46-6

Content (W/W)
>=25.0-<50.0%

Chemical name
diethylene glycol

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4. First-Aid measures

Description of first aid measures

General advice:

Remove contaminated clothing.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. Seek medical attention.

If on skin:

Wash thoroughly with soap and water.

If irritation develops, seek medical attention.

If in eyes:

Wash affected eyes for at least 15 minutes under water with eyelids held open.

If irritation develops, seek medical attention.

If swallowed:

Rinse mouth immediately with water. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting due to aspiration hazard. Seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labeling (see section 2) and/or in section 11.

Further important symptoms and effects are so far not known.

Hazards: No applicable information available.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment Treat according to symptoms (decontamination, vital functions) no known specific antidote.

5. Fire-fighting Measures

Extinguishing media

Suitable extinguishing media:

Water spray, dry powder, foam

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

Harmful vapors

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

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Advice for fire-fighters

Protective equipment for fire-fighting:

Fire-fighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Further accidental release measures:

High risk of slipping due to leakage/spillage of product.

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing.

Environmental precautions

Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For small amounts: Pick up with absorbant material (e.g. sand, sawdust, general-purpose binder)

Dispose of absorbed material in accordance with regulations.

For large amounts: pump off product.

7. Handling and Storage

Precautions for safe handling

No special measures necessary provided product is used correctly.

Protection against fire and explosion:

No special precautions necessary.

Conditions for safe storage, including any incompatibilities

Segregate from acids and bases. Segregate from strong oxidizing agents.

8. Exposure Controls/Personal Protection

Advice on system design:

Provide local exhaust ventilation to control vapors/mists

Personal protective equipment

°Wear respiratory protection if ventilation is inadequate. Respiratory protection in case of vapor/aerosol release.

Hand protection

Chemical resistant protective gloves

Eye protection

Safety glasses with side-shield

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Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Take off immediately all contaminated clothing. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

| | | |
|----------------------------|---|--|
| Form: | liquid | |
| Odor: | of glycol | |
| Odor threshold: | | No applicable information available. |
| Color: | red | |
| pH value: | 9.5 | |
| Melting point: | | Not determined. |
| Boiling point: | 102° C | (1,013 hPa) |
| Sublimation point: | | No applicable information available. |
| Flash point: | | Not applicable |
| Flammability | not applicable | |
| Lower explosion limit: | | For liquids not relevant for classification and labeling. The lower explosion point may be 5-15°C below the flash point. |
| Upper explosion limit: | | For liquids not relevant for classification and labeling. |
| Autoignition: | 407°C | |
| Vapor pressure: | | No applicable information available. |
| Density: | 1.079 g/cm ³ | (20-25°C) |
| Relative density: | | No applicable information available. |
| Bulk density: | 1,080 kg/m ³ | |
| Vapor density: | | No applicable information available. |
| Self-ignition temperature: | | Not self-igniting |
| Thermal decomposition: | No composition if correctly stored and handled. | |
| Viscosity, dynamic: | | Not determined. |
| Viscosity, kinematic: | | No applicable information available. |
| Solubility in water: | | Completely soluble. |
| Solubility (quantitative): | | No applicable information available. |
| Solubility (qualitative): | | No applicable information available. |
| Evaporation rate: | | Value can be approximated from Henry' Law Constant or vapor pressure. |
| Other information: | If necessary, information on other physical and chemical parameters is indicated in this section. | |

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: No corrosive effect on metal.

Oxidizing properties: not fire-propagating

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Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

No hazardous reactions when stored and handled according to the instructions.

The product is chemically stable.

Conditions to avoid

No conditions to avoid anticipated.

Incompatible materials

Strong acids, strong bases, strong oxidizing-agents

Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No decomposition if correctly stored and handled.

11. Toxicologist information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Of low toxicity after single ingestion.

Oral

Type of value: LD50

Species: rat

Value: >2,000 mg/kg

Information on: diethylene glycol

Type of value: LD (human)

Value: approx.. 1,000 mg/kg

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Inhalation

No applicable information available.

Dermal

No applicable information available.

Assessment of other acute effects

No applicable information available.

Irritation/corrosion

Assessment of irritating effects: Not irritating to eyes and skin.

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Skin

Species: rabbit

Result: slightly irritating

Method: Draize test

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Eye

Species: rabbit

Result: non-irritant

Method: Draize test

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Sensitization

Assessment of sensitization: Based on available data, the classification criteria are not met.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: The substance may cause damage to the kidney after repeated ingestion.

Genetic toxicity

Assessment of mutagenicity: No applicable information available.

Carcinogenicity

Assessment of carcinogenicity: The whole of the information assessable provides no indication of a carcinogenic effect.

Reproductive toxicity

Assessment of reproduction toxicity: No applicable information available.

Experiences in humans

Information on: diethylene glycol

Diethylene in pharmaceutical products caused death and severe kidney damage in humans.

Other information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

Symptoms of Exposure

The most important known symptoms and effects are described in the labeling (see section 2)

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

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There is a high probability that the product is not acutely harmful to aquatic organisms.

Toxicity to fish

LC50 (96 h) > 1,000 mg/l, *Lepomis macrochirus* (static)

Aquatic invertebrates

EC50 (24 h) > 1,000 mg/l, *Daphnia magna*

Aquatic plants

EC10 (72 h) > 100 mg/l, algae

Literature data

Microorganisms/Effect on activated sludge

Toxicity to microorganisms

Bacterium/EC10 (16h): 8,000 mg/l

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Persistence and degradability

Assessment biodegradation and elimination (H2O)

Study scientifically not justified.

Bioaccumulative potential

Assessment bioaccumulation potential

Study scientifically not justified.

Mobility in soil

Assessment transport between environmental compartments

No data available.

Additional information

Other ecotoxicological advice:

Do not release untreated into natural waters.

The product has not been tested. The statements on ecotoxicology have been derived from the properties of individual components

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

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14. Transport Information

Land transport

USDOT Not classified as a dangerous good under transport regulations.

Sea transport

IMDG Not classified as a dangerous good under transport regulations.

Air transport

IATA/ICAO Not classified as a dangerous good under transport regulations.

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released/listed

EPCRA RQ 311/312 (Hazard categories) Acute, chronic

| <u>CERCLA RQ</u> | <u>CAS Number</u> | <u>Chemical name</u> |
|-------------------------|--------------------------|-----------------------------|
| 100 lbs | 110-91-8 | morpholine |

State regulations

| <u>State RTK</u> | <u>CAS Number</u> | <u>Chemical name</u> |
|-------------------------|--------------------------|-----------------------------|
| PA | 111-46-6 | diethylene glycol |

CA Prop 65:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

NFPA Hazard codes:

Health: 1 Fire: 1 Reactivity: 0 Special:

HMIS III rating

Health: 1 Flammability: 1 Physical hazard: 0

16. Other Information

SDS Prepared by:

Hytek Industries Corporation
SDS prepared on 1/10/16

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