

Safety Data Sheet

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Glytex HFC 46

Product Number(s): 833294

Country Registration:

Denmark: PR-4419520

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Uses: Hydraulic Oil

1.3 Details of the supplier of the safety data sheet

YX Smørelie A/S

Buddingevej 195

DK-2860 Søborg

Kundecenter: +45 70 11 56 78

Denmark

Web: yxlube.dk

email : sales@yxlube.dk

1.4 Emergency telephone number

Transportation Emergency Response

CHEMTREC: +1 703 527 3887

Health Emergency

Danish Environmental Protection Agency: +45 72 54 40 00

Chevron Emergency Information Center: International calls accepted 24 hours: +1 510 231 0623

Poison Control Centre Denmark: 0045/ 82 12 12 12

Product Information

Technical Information: 0045/70 11 56 78

SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLP CLASSIFICATION:

- Acute oral toxicant: Category 4, H302; Harmful if swallowed.
- Target organ toxicant (repeated exposure): Category 2, H373; May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements

Under the criteria of Regulation (EC) No 1272/2008 (CLP):



Signal Word: Warning

HAZARD STATEMENTS:

Health Hazards:

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

- contains: Ethylene glycol

PRECAUTIONARY STATEMENTS:

Prevention:

- Do not breathe dust/fume/gas/mist/vapours/spray (P260).
- Wash thoroughly after handling (P264).
- Do not eat, drink or smoke when using this product (P270).

Response:

- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell (P301+P312).
- Get medical advice/attention if you feel unwell (P314).
- Rinse mouth (P330).

Disposal:

- Dispose of contents/container in accordance with applicable local/regional/national/international regulations (P501).

2.3 Other hazards

This product is not, or does not contain, a substance that is a potential PBT or a vPvB. This product is not, or does not contain, a substance that potentially has endocrine disrupting properties.

SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

3.2 Mixtures

This material is a mixture.

| COMPONENTS | CAS NUMBER | EC NUMBER | REGISTRATION NUMBER | CLP CLASSIFICATION | AMOUNT |
|-------------------|------------|-----------|---------------------|---|-------------------|
| Ethylene glycol | 107-21-1 | 203-473-3 | 01-2119456816-28 | Acute Tox. 4/H302; STOT RE 2/H373 | 25 - 50 %weight |
| Diethylene glycol | 111-46-6 | 203-872-2 | 01-2119457857-21 | Acute Tox. 4/H302 [C>=10] | 5 - 10 %weight |
| Decanoic acid | 334-48-5 | 206-376-4 | 01-2120139722-58 | Aquatic Chronic 3/H412; Eye Irrit. 2/H319; Skin Irrit. 2/H315 | 1 - < 2.5 %weight |

The full text of all CLP H-statements is shown in Section 16.

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

Eye: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

Skin: No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

Ingestion: If swallowed, get immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

Inhalation: No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

4.2 Most important symptoms and effects, both acute and delayed

IMMEDIATE SYMPTOMS AND HEALTH EFFECTS

Eye: Not expected to cause prolonged or significant eye irritation.

Skin: Contact with the skin is not expected to be harmful.

Ingestion: May be harmful if swallowed.

Inhalation: Not expected to be harmful if inhaled.

DELAYED OR OTHER SYMPTOMS AND HEALTH EFFECTS: Contains material that may cause damage to the following organ(s) following repeated ingestion based on animal data: Kidney

See Section 11 for additional information. Risk depends on duration and level of exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Not applicable.

SECTION 5 FIRE FIGHTING MEASURES

5.1 Extinguishing media

Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

5.2 Special hazards arising from the substance or mixture

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

5.3 Advice for firefighters

This material will burn although it is not easily ignited. See Section 7 for proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Eliminate all sources of ignition in vicinity of spilled material. Refer to Sections 5 and 8 for more information.

6.2 Environmental precautions

Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater.

6.3 Methods and material for containment and cleaning up

Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil and dispose of in a manner consistent with applicable requirements. Place other contaminated materials in disposable containers and dispose of in a manner consistent with applicable requirements. Report spills to local authorities as appropriate or required.

6.4 Reference to other sections

See sections 8 and 13.

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling

General Handling Information: Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Precautionary Measures: Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Wash thoroughly after handling.

Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

7.2 Conditions for safe storage, including any incompatibilities

Not Applicable

7.3 Specific end use(s):Hydraulic Oil

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances. Refer to appropriate CEN standards.

8.1 Control parameters

Occupational Exposure Limits:

| Component | Country/ Agency | Form | TWA | STEL | Ceiling | Notation |
|-------------------|--------------------|---------|----------------------|-----------------------|---------|----------|
| Ethylene glycol | Denmark | Aerosol | 10 mg/m ³ | -- | -- | -- |
| Ethylene glycol | Denmark | -- | 26 mg/m ³ | -- | -- | Skin |
| Ethylene glycol | EU-Indicative | -- | 52 mg/m ³ | 104 mg/m ³ | -- | Skin |
| Diethylene glycol | Denmark | -- | 11 mg/m ³ | -- | -- | -- |

Consult local authorities for appropriate values.

8.2 Exposure controls

ENGINEERING CONTROLS:

Use in a well-ventilated area.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection: No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

Skin Protection: No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: Nitrile Rubber.

Respiratory Protection: No respiratory protection is normally required.

ENVIRONMENTAL EXPOSURE CONTROLS:

See relevant Community environmental protection legislation or the Annex, as applicable.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

9.1 Information on basic physical and chemical properties

Appearance

Color: Red

Physical State: Liquid

Odor: Faint or Mild

Odor Threshold: No data available

pH: 9.20 - 9.50

Melting Point: No data available

Freezing Point: No data available

Initial Boiling Point: No data available

Flashpoint: Not Applicable

Evaporation Rate: No data available

Flammability (solid, gas): No Data Available

Flammability (Explosive) Limits (% by volume in air):

Lower: Not Applicable Upper: Not Applicable

Vapor Pressure: No data available

Vapor Density (Air = 1): No data available

Density: 1.0820 kg/l @ 15°C (59°F) (Typical)

Solubility: Miscible

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: 38 mm²/s @ 40°C (104°F) (Typical)

Explosive Properties: No Data Available

Oxidising properties: No Data Available

9.2 Other Information: No Data Available

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity: May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

10.2 Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions: Hazardous polymerization will not occur.

10.4 Conditions to Avoid: Not applicable

10.5 Incompatible materials to avoid: Not applicable

10.6 Hazardous decomposition products: None known (None expected)

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Product Information:

Serious Eye Damage/Irritation: The material is not considered an eye irritant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Skin Corrosion/Irritation: The material is not considered a skin irritant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Skin Sensitization: The material is not considered a skin sensitizer. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Acute Dermal Toxicity: The material is not considered a dermal toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Acute Toxicity Estimate (dermal): Not Applicable

Acute Oral Toxicity: This material is harmful if swallowed. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Acute Toxicity Estimate (oral): 1136 mg/kg

Acute Inhalation Toxicity: The material is not considered an inhalation toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Acute Toxicity Estimate (inhalation): Not Applicable

Germ Cell Mutagenicity: The material is not considered a mutagen. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Carcinogenicity: The material is not considered a carcinogen. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Reproductive Toxicity: The material is not considered a reproductive toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Specific Target Organ Toxicity - Single Exposure: The material is not considered a target organ toxicant (single exposure). The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Specific Target Organ Toxicity - Repeated Exposure: This material may cause damage to organs through prolonged or repeated exposure. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Aspiration Hazard: The material is not considered an aspiration hazard.

Component Information:

| Serious Eye Damage/Irritation: | |
|---------------------------------------|--|
| Ethylene glycol | Based on available data, the classification criteria are not met |
| Diethylene glycol | Based on available data, the classification criteria are not met |
| Decanoic acid | Test Result: Causes eye irritation |

| Skin Corrosion/Irritation: | |
|-----------------------------------|--|
| Ethylene glycol | Based on available data, the classification criteria are not met |
| Diethylene glycol | Based on available data, the classification criteria are not met |
| Decanoic acid | Test Result: Causes skin irritation |

| Skin Sensitization: | |
|----------------------------|--|
| Ethylene glycol | Based on available data, the classification criteria are not met |
| Diethylene glycol | Based on available data, the classification criteria are not met |
| Decanoic acid | Based on available data, the classification criteria are not met |

| Acute Dermal Toxicity: | |
|-------------------------------|--|
| Ethylene glycol | Based on available data, the classification criteria are not met |
| Diethylene glycol | Based on available data, the classification criteria are not met |
| Decanoic acid | Based on available data, the classification criteria are not met |

| Acute Oral Toxicity: | |
|-----------------------------|----------------------|
| Ethylene glycol | Test Qualifier: LD50 |

| | |
|-------------------|--|
| | Test Result: 1600 mg/kg Species: cat |
| Diethylene glycol | Test Qualifier: LDLo-Lowest Lethal Dose Test Result: 1120 mg/kg Species: human |
| Decanoic acid | Based on available data, the classification criteria are not met |

Acute Inhalation Toxicity:

| | |
|-------------------|--|
| Ethylene glycol | Based on available data, the classification criteria are not met |
| Diethylene glycol | Based on available data, the classification criteria are not met |
| Decanoic acid | Based on available data, the classification criteria are not met |

Germ Cell Mutagenicity:

| | |
|-------------------|--|
| Ethylene glycol | Based on available data, the classification criteria are not met |
| Diethylene glycol | Based on available data, the classification criteria are not met |
| Decanoic acid | Based on available data, the classification criteria are not met |

Carcinogenicity:

| | |
|-------------------|--|
| Ethylene glycol | Based on available data, the classification criteria are not met |
| Diethylene glycol | Based on available data, the classification criteria are not met |
| Decanoic acid | Based on available data, the classification criteria are not met |

Reproductive Toxicity:

| | |
|-------------------|--|
| Ethylene glycol | Based on available data, the classification criteria are not met |
| Diethylene glycol | Based on available data, the classification criteria are not met |
| Decanoic acid | Based on available data, the classification criteria are not met |

Specific Target Organ Toxicity - Single Exposure:

| | |
|-------------------|--|
| Ethylene glycol | Based on available data, the classification criteria are not met |
| Diethylene glycol | Based on available data, the classification criteria are not met |
| Decanoic acid | Based on available data, the classification criteria are not met |

Specific Target Organ Toxicity - Repeated Exposure:

| | |
|-------------------|---|
| Ethylene glycol | Test Result: May cause damage to organs through prolonged and repeated exposure if ingested based on human data |
| Ethylene glycol | Test Result: May cause damage to organs through prolonged and repeated exposure if inhalation based on human data |
| Diethylene glycol | Based on available data, the classification criteria are not met |
| Decanoic acid | Based on available data, the classification criteria are not met |

11.2 Information on other hazards

No other hazards identified.

SECTION 12 ECOLOGICAL INFORMATION

Product Information:

12.1 Toxicity

This material is not expected to be harmful to aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components.

12.2 Persistence and degradability

This material is expected to be readily biodegradable. The product has not been tested. The statement has been derived from the properties of the individual components.

12.3 Bioaccumulative potential

Bioconcentration Factor: No Data Available
Octanol/Water Partition Coefficient: No data available

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This product is not, or does not contain, a substance that is a potential PBT or a vPvB.

12.6 Endocrine Disrupting Properties

This mixture does not contain any substances that are assessed as having endocrine disrupting properties.

12.7 Other adverse effects

No other adverse effects identified.

Component Information:

Acute Toxicity:

| | |
|-------------------|--|
| Ethylene glycol | Based on available data, the classification criteria are not met |
| Diethylene glycol | Based on available data, the classification criteria are not met |
| Decanoic acid | No test data available |

Long-term Toxicity:

| | |
|-------------------|--|
| Ethylene glycol | Based on available data, the classification criteria are not met |
| Diethylene glycol | Based on available data, the classification criteria are not met |
| Decanoic acid | Confidential test data |

Biodegradation:

| | |
|-------------------|--|
| Ethylene glycol | Based on available data, the classification criteria are not met |
| Diethylene glycol | Based on available data, the classification criteria are not met |
| Decanoic acid | Not applicable |

Bioaccumulative Potential:

| | |
|-------------------|--|
| Ethylene glycol | Based on available data, the classification criteria are not met |
| Diethylene glycol | Based on available data, the classification criteria are not met |
| Decanoic acid | No test data available |

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

In accordance with European Waste Catalogue (E.W.C.) the codification is the following:13 02 05

SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult appropriate Dangerous Goods Regulations for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

ADR/RID

NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT

- 14.1 UN Number or ID Number: Not applicable
- 14.2 UN proper shipping name: Not applicable
- 14.3 Transport hazard class(es): Not applicable
- 14.4 Packing group: Not applicable
- 14.5 Environmental hazards: Not applicable
- 14.6 Special precautions for user: Not applicable

ICAO / IATA

NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT

- 14.1 UN Number or ID Number: Not applicable
- 14.2 UN proper shipping name: Not applicable
- 14.3 Transport hazard class(es): Not applicable
- 14.4 Packing group: Not applicable
- 14.5 Environmental hazards: Not applicable
- 14.6 Special precautions for user: Not applicable

IMO / IMDG

NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT

- 14.1 UN Number or ID Number: Not applicable
- 14.2 UN proper shipping name: Not applicable
- 14.3 Transport hazard class(es): Not applicable
- 14.4 Packing group: Not applicable
- 14.5 Environmental hazards: Not applicable
- 14.6 Special precautions for user: Not applicable
- 14.7 Maritime Transport in Bulk according to IMO Instruments: Not applicable

SECTION 15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture REGULATORY LISTS SEARCHED:

- 01=EU Directive 76/769/EEC: Restrictions on the marketing and use of certain dangerous substances.
- 02=EU Directive 90/394/EEC: Carcinogens at work.
- 03=EU Directive 92/85/EEC: Pregnant or breastfeeding workers.
- 04=EU Directive 96/82/EC (Seveso II): Article 9.
- 05=EU Directive 96/82/EC (Seveso II): Articles 6 and 7.
- 06=EU Directive 98/24/EC: Chemical agents at work.
- 07=EU Directive 2004/37/EC: On the protection of workers.
- 08=EU Regulation EC No. 689/2008: Annex 1, Part 1.
- 09=EU Regulation EC No. 689/2008: Annex 1, Part 2.
- 10=EU Regulation EC No. 689/2008: Annex 1, Part 3.
- 11=EU Regulation EC No. 850/2004: Prohibiting and restricting persistent organic pollutants (POPs).
- 12=EU REACH, Annex XVII: Restrictions on manufacture, placing on the market and use of certain dangerous substances, mixture & article.
- 13=EU REACH, Annex XIV: Authorization List or Candidate List of Substances of Very High Concern for Authorization (SVHC).

The following components of this material are found on the regulatory lists indicated.

| | |
|-------------------|--------|
| Ethylene glycol | 06 |
| Diethylene glycol | 06, 12 |
| Decanoic acid | 06, 12 |

CHEMICAL INVENTORIES:

All components comply with the following chemical inventory requirements: TSCA (United States).

COUNTRY REGISTRATION:

Denmark: YES (4419520)

15.2 Chemical safety assessment

No chemical safety assessment.

SECTION 16 OTHER INFORMATION

REVISION STATEMENT: SECTION 01 - Country Registration information was modified.
 SECTION 02 - Hazard Statements information was modified.
 SECTION 02 - Health Classification information was modified.
 SECTION 02 - Pictogram information was modified.
 SECTION 02 - Precautionary Statements information was modified.
 SECTION 02.2 - Hazardous Component Identification List information was modified.
 SECTION 03 - Composition information was modified.
 SECTION 04 - Delayed Health Effects - Target Organ(s) information was modified.
 SECTION 04 - First Aid - Ingestion information was modified.
 SECTION 04 - Target Organ(s) information was added.
 SECTION 07 - Precautionary Measures information was modified.
 SECTION 08 - Occupational Exposure Limit Table information was modified.
 SECTION 08 - Personal Protective Equipment List information was modified.
 SECTION 09 - Physical/Chemical Properties information was modified.
 SECTION 11 - Specific Target Organ Toxicity - Repeated Exposure information was modified.
 SECTION 11 - Toxicological Information information was modified.
 SECTION 12 - Ecological Information information was modified.
 SECTION 13 - Disposal Considerations information was modified.
 SECTION 15 - Chemical Inventories information was modified.
 SECTION 15 - Country Registration information was modified.
 SECTION 15 - Regulatory Information information was modified.
 SECTION 16 - Full Text of H-Statements information was modified.

Revision Date: March 07, 2022**Full text of CLP H-statements:**

Aquatic Chronic 3/H412; Harmful to aquatic life with long lasting effects

Eye Irrit. 2/H319; Causes serious eye irritation

Acute Tox. 4/H302; Harmful if swallowed

Skin Irrit. 2/H315; Causes skin irritation

STOT RE 2/H373; May cause damage to organs through prolonged or repeated exposure

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

| | | | | | |
|------|---|---------------------------|-----|---|----------------------------------|
| TLV | - | Threshold Limit Value | TWA | - | Time Weighted Average |
| STEL | - | Short-term Exposure Limit | PEL | - | Permissible Exposure Limit |
| CVX | - | Chevron | CAS | - | Chemical Abstract Service Number |
| NQ | - | Not Quantifiable | | | |

Prepared according to the EU Regulation 1907/2006 (as amended) by Chevron Technical Center, 6001 Bollinger Canyon Road, San Ramon, CA 94583.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

No Annex