# 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

**UFI: 8JC8-6030-W001-HSUH**

**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**
Uno-X Smøreolie A/S
Buddingevej 195
DK-2860 Søborg
Kundecenter: +45 70 11 56 78
Denmark
Web: lube.unox.dk
email : sales@unox.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:**
- 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 workplace when designing engineering controls and selecting personal protective equipment (PPE). If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, refer to PPE information below.

Factors that affect PPE include, but are not limited to: properties of the chemical, other chemicals which may contact the same PPE, physical requirements (fit & sizing, cut/puncture protection, dexterity, thermal protection, etc.), and potential allergic reactions to the PPE material. It is the responsibility of the user to 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/m3 | -- | -- | -- |
| Ethylene glycol | Denmark | -- | 26 mg/m3 | -- | -- | Skin |
| Ethylene glycol | EU-Indicative | -- | 52 mg/m3 | 104 mg/m3 | -- | Skin |
| Diethylene glycol | Denmark | -- | 11 mg/m3 | -- | -- | -- |

Consult local authorities for appropriate values.

**8.2 Exposure controls**
**ENGINEERING CONTROLS:**
Use general ventilation, local exhaust ventilation, or a combination of both.

**PERSONAL PROTECTIVE EQUIPMENT**
**Eye/Face Protection:** Wear protective equipment to prevent eye contact. Selection of protective equipment may include safety glasses, chemical goggles, face shields, or a combination depending on the work operations conducted.
**Skin Protection:** Wear chemical personal protective equipment (PPE) to prevent skin contact. Selection of chemical protective clothing should be performed by an Occupational Hygienist or Safety Professional and be based upon applicable standards (ASTM F739 or EN 374). Using chemical PPE depends upon

operations conducted and may include chemical gloves, boots, chemical apron, chemical suit, and complete facial protection. Refer to PPE manufacturers to obtain breakthrough time information to determine how long PPE can be used before it needs to be replaced. Unless specific glove manufacturer data indicates otherwise, the below table is based upon available industry data to assist in the glove selection process and is intended to be used as reference only.

| Chemical Glove Material | Thickness (mm) | Typical Breakthrough Time (minutes) |
|---|---|---|
| Butyl | 0.7 | 240 |
| Neoprene | 0.9 | 240 |
| Nitrile | 0.55 | 240 |
| Polyvinyl Chloride (PVC) | 1.5 | 120 |
| Viton Butyl | 0.3 | 120 |

**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<br>Test Result: 1600 mg/kg<br>Species: cat |
| Diethylene glycol | Test Qualifier: LDLo-Lowest Lethal Dose<br>Test Result: 1120 mg/kg<br>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 2012/18/EU: Seveso III.
05=EU Directive 98/24/EC: Chemical agents at work.
06=EU Directive 2004/37/EC: On the protection of workers.
07=EU Regulation EC No. 689/2008: Annex 1, Part 1.
08=EU Regulation EC No. 689/2008: Annex 1, Part 2.
09=EU Regulation EC No. 689/2008: Annex 1, Part 3.
10=EU Regulation EC No. 850/2004: Prohibiting and restricting persistent organic pollutants (POPs).
11=EU REACH, Annex XVII: Restrictions on manufacture, placing on the market and use of certain dangerous substances, mixture & article.
12=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 | 05, 11 |
| Diethylene glycol | 05, 11 |
| Decanoic acid | 05, 11 |

**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 02 - Precautionary Statements information was modified.

**Revision Date:** March 13, 2023

**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**