

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

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

Chevron Products UK Limited
1 Westferry Circus
Canary Wharf
London E14 4HA
United Kingdom
email : eumsds@chevron.com

1.4 Emergency telephone number

Transportation Emergency Response

Europe: 0044/(0)18 65 407333 and CHEMTREC: +1 703 527 3887

Health Emergency

Chevron Emergency Information Center: Located in the USA, international calls accepted 24 hours: +1 510 231 0623

Europe: 0044/(0)18 65 407333

Product Information

Product Information: FAX number: 0044/20 77 19 5171

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	**	Acute Tox. 4/H302; STOT RE 2/H373	25 - 50 %weight
Diethylene glycol	111-46-6	203-872-2	**	Acute Tox. 4/H302 [C>=10]	5 - 10 %weight
Decanoic acid	334-48-5	206-376-4	**	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.

**Not available or substance is not currently required for registration under UK REACH.

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	EU-Indicative	--	52 mg/m ³	104 mg/m ³	--	Skin
Ethylene glycol	United Kingdom	Particulate	10 mg/m ³	--	--	Skin
Ethylene glycol	United Kingdom	Vapor	52 mg/m ³	104 mg/m ³	--	Skin
Ethylene glycol	United Kingdom	--	10 mg/m ³	104 mg/m ³	--	Skin
Diethylene glycol	United Kingdom	--	101 mg/m ³	--	--	--

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 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 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).

15.2 Chemical safety assessment

No chemical safety assessment.

SECTION 16 OTHER INFORMATION

REVISION STATEMENT: SECTION 02 - Precautionary Statements information was modified.
 SECTION 03 - Composition information was deleted.

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