

Safety Data Sheet



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

1.1 Product identifier

Synstar Hydraulic HFDU 46

Product Number(s): 832806

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:

Not classified as dangerous according to UK REACH regulation.

2.2 Label elements

Under the criteria of GB CLP:
Not classified

- contains: 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-. May produce an allergic reaction.

2.3 Other hazards

This material does not meet the criteria for PBT or vPvB.

SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

3.2 Mixtures

This material is a mixture.

| COMPONENTS | CAS NUMBER | EC NUMBER | REGISTRATION NUMBER | GB CLP CLASSIFICATION | AMOUNT |
|--|------------|-----------|---------------------|--|----------------------|
| 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl- | 94270-86-7 | 939-700-4 | ** | Aquatic Acute 1/H400 [M=1]; Aquatic Chronic 2/H411; Skin Sens. 1B/H317; Skin Irrit. 2/H315 | 0.1 - < 0.25 %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: No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

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: High-Pressure Equipment Information: Accidental high-velocity injection under the skin of materials of this type may result in serious injury. Seek medical attention at once should an accident like this occur. The initial wound at the injection site may not appear to be serious at first; but, if left untreated, could result in disfigurement or amputation of the affected part.

Contact with the skin is not expected to be harmful.

Ingestion: Not expected to be harmful if swallowed.

Inhalation: Not expected to be harmful if inhaled.

DELAYED OR OTHER SYMPTOMS AND HEALTH EFFECTS: Not classified.

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

Observe all relevant local and international regulations. Eliminate all sources of ignition in vicinity of spilled material. Keep out unnecessary and unprotected personnel. Persons entering the contaminated area to correct the problem or to determine whether it is safe to resume normal activities must comply with all instructions in the Exposure Controls/Personal Protection section. 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.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.

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: No applicable occupational exposure limits exist for this material or its components. Consult local authorities for appropriate values.

8.2 Exposure controls

ENGINEERING CONTROLS:

Use in a well-ventilated area.

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 | 120 |
| Nitrile | 0.8 | 240 |
| Viton Butyl | 0.3 | 240 |

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: Brown to yellow

Physical State: Liquid

Odor: Petroleum odor

Odor Threshold: No data available

pH: Not Applicable

Melting Point: No data available
Freezing Point: No data available
Initial Boiling Point: No data available
Flashpoint: (Cleveland Open Cup) 290 °C (554 °F) (Minimum)
Evaporation Rate: No data available
Flammability (solid, gas): Not Applicable
Flammability (Explosive) Limits (% by volume in air):
Lower: Not Applicable Upper: Not Applicable
Vapor Pressure: No data available
Relative Vapor Density: No data available
Density: 0.924 kg/l @ 15°C (59°F) (Typical)
Solubility: Soluble in hydrocarbons; insoluble in water
Partition coefficient n-octanol/water (logarithmic value): No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Kinematic Viscosity: 41.4 mm²/s @ 40°C (104°F) (Minimum)
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

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

Acute Toxicity Estimate (oral): Not Applicable

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: The material is not considered a target organ toxicant (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: | |
| 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl- | Based on available data, the classification criteria are not met |
| Skin Corrosion/Irritation: | |
| 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl- | Test Result: Causes skin irritation |
| Skin Sensitization: | |
| 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl- | Test Result: May cause allergic skin reaction |
| Acute Dermal Toxicity: | |
| 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl- | Based on available data, the classification criteria are not met |
| Acute Oral Toxicity: | |
| 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl- | Based on available data, the classification criteria are not met |
| Acute Inhalation Toxicity: | |
| 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl- | Based on available data, the classification criteria are not met |
| Germ Cell Mutagenicity: | |
| 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl- | Based on available data, the classification criteria are not met |
| Carcinogenicity: | |
| 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl- | Based on available data, the classification criteria are not met |

| | |
|--|--|
| Reproductive Toxicity: | |
| 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl- | Based on available data, the classification criteria are not met |
| Specific Target Organ Toxicity - Single Exposure: | |
| 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl- | Based on available data, the classification criteria are not met |
| Specific Target Organ Toxicity - Repeated Exposure: | |
| 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl- | 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

Partition coefficient n-octanol/water (logarithmic value): No data available

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This material does not meet the criteria for PBT or 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: | |
| 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl- | Test Qualifier: EC50 Test Result: <=1 mg/l Species: Algae Duration:72 hour(s) |
| 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl- | Test Qualifier: EC50 Test Result: <=1 mg/l Species: Invertebrate Duration:48 hour(s) |
| 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl- | Test Qualifier: LC50 Test Result: <=1 mg/l Species: Fish Duration:96 hour(s) |

| | |
|--|------------------------|
| Long-term Toxicity: | |
| 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl- | No test data available |

| | |
|--|--|
| Biodegradation: | |
| 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl- | Protocol: OECD 301B-Modified Sturm Test Result: Not readily biodegradable |

| | |
|--|------------------------|
| Bioaccumulative Potential: | |
| 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl- | 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 01 10

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 92/85/EEC: Pregnant or breastfeeding workers.

02=EU Directive 2012/18/EU: Seveso III.

03=EU Directive 98/24/EC: Chemical agents at work.

04=EU Directive 2004/37/EC: On the protection of workers.

05=EU Regulation EC No. 689/2008: Annex 1, Part 1.

06=EU Regulation EC No. 850/2004: Prohibiting and restricting persistent organic pollutants (POPs).

07=EU REACH, Annex XVII: Restrictions on manufacture, placing on the market and use of certain dangerous substances, mixture & article.

08=EU REACH, Annex XIV: Authorization List or Candidate List of Substances of Very High Concern for Authorization (SVHC).

No components of this material were found on the regulatory lists above.

15.2 Chemical safety assessment

No chemical safety assessment.

SECTION 16 OTHER INFORMATION

REVISION STATEMENT: SECTION 02 - Supplemental Hazard information was modified.

SECTION 08 - Respiratory Protection information was deleted.

SECTION 12 - Ecological Information information was modified.

SECTION 15 - Regulatory Information information was modified.

Revision Date: August 08, 2025

Full text of CLP H-statements:

Aquatic Acute 1/H400; Very toxic to aquatic life

Aquatic Chronic 2/H411; Toxic to aquatic life with long lasting effects

Skin Sens. 1/H317; May cause an allergic skin reaction

Skin Irrit. 2/H315; Causes skin irritation

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 UK REACH by Chevron.

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No Annex