

SAFETY DATA SHEET (MSDS)

HFO15 | HYDRAULIC OIL (MARCH 2022)

SECTION 1

PRODUCT AND COMPANY IDENTIFICATION

1.1. Product Identifier

Product form : Mixture

Product name : HFO15

Type of product : Petroleum and petroleum products

Product group : Trade product

1.2. Relevant Identified uses of the substance or mixture and uses advised against

1.2.1. Relevant Identified uses

Main use category : Industrial use, Professional use, Consumer use

Industrial/Professional use spec : For professional use only

Industrial

Use of the substance/mixture : Hydraulic fluids and additives

Lubricants and additives

Function or use category : Hydraulic fluids and additives, Lubricants and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Hi-Force Limited

Prospect Way, Daventry

Northamptonshire NN11 8PL

United Kingdom

1.4. Emergency telephone number.

United Kingdom +44 1327 301000

| Country | Organisation | Address | Emergency Number | Comment |
|----------------|--|--------------------------------------|------------------|---------|
| United Kingdom | National Poisons Information Service (Birmingham Centre) City Hospital | Dudley Road B18 7QH Birmingham | 0344 892 0111 | |

SECTION 2

HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aspiration hazard, Category 1 H304

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

May be fatal if swallowed and enters airways

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard Pictograms (CLP)



GHS08

Signal word (CLP) :

Danger

Hazardous ingredients:

Baseoil - Unspecified - Distillates (Petroleum), Hydrotreated Heavy Paraffinic; Baseoil - Unspecified - Distillates (Petroleum), Solvent-Dewaxed Heavy Paraffinic; Hydrocarbons, C15-C20, N-alkanes, Isoalkanes, Cyclics, <0.03% aromatics.

Hazard statements (CLP)

H304 - May be fatal if swallowed and enters airways.

Precautionary statements (CLP)

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P301+P310+P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

UFI

E1FQ-40AV-W00D-3U4G

2.3. Other hazards

High-pressure injection under skin may cause serious damage.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|-------------|--|
| Baseoil - Unspecified - Distillates (Petroleum), Hydrotreated Heavy Paraffinic | (CAS-No.) 64742-54-7 (EC-No.) 265-157-1 (EC Index-No.) 649-467-00-8 (REACH-no) 01-2119484627-25 | ≥ 30 – < 40 | Asp. Tox. 1, H304 |
| Baseoil - Unspecified - Distillates (Petroleum), Solvent-Dewaxed Heavy Paraffinic | (CAS-No.) 64742-65-0 (EC-No.) 265-169-7 (EC Index-No.) 649-474-00-6 (REACH-no) 01-2119471299-27 | ≥30 – < 40 | Asp. Tox. 1, H304 |
| Hydrocarbons, C15-C20, N-alkanes, Isoalkanes, Cyclics, | (CAS-No.) 1335203-17-2 (EC-No.) 934-956-3 | ≥ 20 – < 30 | Asp. Tox. 1, H304 |
| TOLUENE substance with a Community workplace exposure limit | (CAS-No.) 108-88-3 (EC-No.) 203-625-9 (EC Index-No.) 601-021-00-3 | < 0.25 | Flam. Liq. 2, H225 Repr. 2, H361d Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336 |

SECTION 4 FIRST AID MEASURES

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Do not induce vomiting. Call a physician immediately

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after ingestion : Risk of lung oedema

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5

FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6

ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7

HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Store locked up.

7.3. Specific end use(s)

No additional information available

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

| | |
|---|--|
| TOLUENE (108-88-3) | |
| EU - Occupational Exposure Limits | |
| Local name | Toluene |
| IOELV TWA (mg/m ³) | 192 mg/m ³ |
| IOELV TWA (ppm) | 50 ppm |
| IOELV STEL (mg/m ³) | 384 mg/m ³ |
| IOELV STEL (ppm) | 100 ppm |
| Notes | Skin |
| Regulatory reference | COMMISSION DIRECTIVE 2006/15/EC |
| Ireland - Occupational Exposure Limits | |
| Local name | Toluene |
| OEL TWA (mg/m ³) | 191 mg/m ³ |
| OEL TWA (ppm) | 50 ppm |
| OEL STEL (mg/m ³) | 384 mg/m ³ |
| OEL STEL (OEL STEL) [ppm] | 100 ppm |
| Notes (IE) | Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values) |
| Regulatory reference | Chemical Agents Code of Practice 2020 |
| United Kingdom - Occupational Exposure Limits | |
| Local name | Toluene |
| WEL TWA (mg/m ³) | 191 mg/m ³ |
| WEL TWA (ppm) | 50 ppm |
| WEL STEL (mg/m ³) | 384 mg/m ³ |
| WEL STEL (OEL STEL) [ppm] | 100 ppm |
| Remark (WEL) | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |

8.2. Exposure controls

8.2.1. Appropriate engineering controls:

Ensure good ventilation of the work station

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Safety glasses

8.2.2.2. Skin protection

Skin and body protection: Wear suitable protective clothing

Hand protection: Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance: Colorless to pale yellow liquid

Colour : Light brown

Odour : Characteristic odour.

Odour threshold : No data available

pH : No data available.

Relative evaporation rate (butylacetate=1) : No data available

Melting point : < -38 °C

Freezing point : No data available

Boiling point : No data available

Flash point : ≈150 °C

Auto-ignition temperature : No data available.

Decomposition temperature : No data available
Flammability (solid, gas) : Not applicable
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available.
Relative density : 0.848 (15.6 deg C)
Solubility : No data available
Partition coefficient n-octanol/water (Log Pow) : No data available
Viscosity, kinematic : 15 mm²/s @ 40 deg C
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available

9.2. Other information

No additional information available

SECTION 10 STABILITY AND REACTIVITY

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified
Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified
 Carcinogenicity : Not classified
 Reproductive toxicity : Not classified
 STOT-single exposure : Not classified
 STOT-repeated exposure : Not classified
 Aspiration hazard : May be fatal if swallowed and enters airways.
 Viscosity, kinematic: 15 mm²/s @ 40 deg C

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
 Hazardous to the aquatic environment, short-term(acute): Not classified
 Hazardous to the aquatic environment, long-term (chronic): Not classified
 Not rapidly degradable

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14 TRANSPORT INFORMATION

| ADR | IMDG | IATA | ADN | RID |
|------------------------------|---------------|---------------|---------------|---------------|
| 14.1 UN Number | | | | |
| Not applicable | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.2 UN proper shipping name | | | | |

| | | | | |
|--|---------------|---------------|---------------|---------------|
| Not applicable | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.3 Transport hazard class(es) | | | | |
| Not applicable | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.4 Packing group | | | | |
| Not applicable | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.5 Environmental hazards | | | | |
| | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available | | | | |

14.6. Special precautions for user

Overland transport

No data available

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15

REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Organic solvent

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16 OTHER INFORMATION

| | |
|---------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BLV | Biological limit value |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| EN | European Standard. |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OEL | Occupational exposure limit. |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| vPvB | Very Persistent and Very Bioaccumulative |
| CAS-No. | Chemical Abstract Service number |
| WGK | Water Hazard Class |

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

| | |
|-------------|------|
| Asp. Tox. 1 | H304 |
|-------------|------|

Full text of H- and EUH-statements:

| | |
|---------------|--|
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| STOT RE 2 | Specific target organ toxicity — Repeated exposure, Category 2 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Narcosis |
| H225 | Highly flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H336 | May cause drowsiness or dizziness |
| H361d | Suspected of damaging the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

The information and recommendations contained herein are, to the best of Hi-Force Ltd's knowledge and belief, accurate and reliable as of the date issued. You can contact Hi-Force Ltd to ensure that this document is the most current available. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If a buyer repackages this product, it is the user's responsibility to ensure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe handling procedures should be provided to handlers and users.

Head Office:

Hi-Force Limited
Prospect Way, Daventry
Northamptonshire NN11 8PL
United Kingdom
Tel: + 44 1327 301000 | Fax: + 44 1327 706555
www.hi-force.com

Regional Offices:

For information on our offices worldwide, scan the below QR code

