

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

Use of the substance/mixture : Industrial

Use of the substance/mixture : Hydraulic fluids and additives

Function or use category : 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	Europen 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.

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