

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: TITAN FFL-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Lubricant

Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier FUCHS LUBRICANTS (UK) PLC.

New Century Street ST1 5HU Hanley

Telephone: +44 (0) 1782 203700

Contact Person: Product Safety department

E-mail: product.safety@fuchs.com Telephone: +44 (0) 1782 203700

1.4 Emergency telephone number: UK NHS: Dial 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to regulation GB-CLP.

Classification according to GB-CLP.

Environmental Hazards

Chronic hazards to the aquatic Category 3 H412: Harmful to aquatic life with long lasting

environment effects.

Hazard summary

Physical Hazards: No data available.

2.2 Label Elements

Hazard Statement(s): H412: Harmful to aquatic life with long lasting effects.

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Product name: TITAN FFL-4

Precautionary Statements

Prevention: P273: Avoid release to the environment.

Disposal: P501: Dispose of contents/ container to an approved facility in accord-

ance with local, regional, national and international regulations.

2.3 Other hazards: By handling of mineral oil products and chemical products no particular

hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the envi-

ronment without control.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: Mixture containing severely refined base oils and additives.

Chemical name	Identifier	Concentration *	UK-REACH Registration No.	Notes
Hydrocarbons, low viscous	EC: 500-183-1	20,00% - <50,00%		
base oil, low viscous	EINECS: 276-738-4	20,00% - <50,00%		
Base oil paraffinic	EINECS: 265-157-1	1,00% - <10,00%		
Amine aromatic , alkylated	EINECS: 270-128-1	0,10% - <1,00%		
Alkyl amine	EC: 620-540-6	0,10% - <0,25%		
prim. alkanolamine ether	EC: 939-485-7	0,001% - <0,10%		
hydroxyethyl-alkylamine	EINECS: 276-014-8	0,01% - <0,10%		

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.



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Classification

Chemical name	Identifier	Classification
Hydrocarbons, low viscous	EC: 500-183-1	GBCLP: Asp. Tox. 1;H304
base oil, low viscous	EINECS: 276-738-4	GBCLP: Asp. Tox. 1;H304
Base oil paraffinic	EINECS: 265-157-1	GBCLP: Asp. Tox. 1;H304
Amine aromatic , alkylated	EINECS: 270-128-1	GBCLP: Repr. 2;H361f, Aquatic Chronic 3;H412
Alkyl amine	EC: 620-540-6	GBCLP: Skin Corr. 1C;H314, Eye Dam. 1;H318, Aquatic Acute 1;H400, Aquatic Chronic 1;H410, Acute Tox. 4;H302; M-Factor (aquatic acute): 10; M-Factor (aquatic chronic): 1
prim. alkanolamine ether	EC: 939-485-7	GBCLP: Acute Tox. 4;H302, Skin Corr. 1B;H314, Eye Dam 1;H318, Aquatic Acute 1;H400, Aquatic Chronic 1;H410; M-Factor (aquatic acute): 100; M-Factor (aquatic chronic): 1
hydroxyethyl-alkylamine	EINECS: 276-014-8	GBCLP: Acute Tox. 4;H302, Skin Corr. 1C;H314, Eye Dam 1;H318, Repr. 2;H361d, Aquatic Acute 1;H400, Aquatic Chronic 1;H410; M-Factor (aquatic acute) 10; M-Factor (aquatic chronic): 10

GB-CLP

Please note that the mineral oils and petroleum distillates used in our products are severely refined and have a DMSO extract < 3% as measured by method IP 346 and are not classified as carcinogenic according to Note L of Annex VI of Regulation GB-CLP.

SECTION 4: First aid measures

General: Instantly remove any clothing soiled by the product.

4.1 Description of first aid measures

Inhalation: Supply fresh air; consult doctor in case of symptoms.

Eye contact: Promptly wash eyes with plenty of water while lifting the eye lids.

Skin Contact: Wash with soap and water.

Ingestion: Rinse mouth thoroughly.

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

May cause skin and eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

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5.1 Extinguishing media

Suitable extinguishing me-

dia:

CO2, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant add-

ed

Unsuitable extinguishing

media:

Water with a full water jet.

5.2 Special hazards arising from the substance or mix-

ture:

During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special fire-fighting proce-

dures:

Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water inaccordance with official regulations. Collect contaminated fire fighting water separately. It must not enter

drains.

Special protective equipment for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

In case of spills, beware of slippery floors and surfaces.

6.2 Environmental Precautions:

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent from spreading (e.g. by binding or oil barriers). Environmental manager must be informed of all major spillages. Do not allow to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning

up:

Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust). Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk.

6.4 Reference to other sections:

See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling:

Prevent formation of aerosols. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Observe good industrial hygiene practices. Provide adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities:

Local regulations concerning handling and storage of waterpolluting products have to be followed. Do not heat up to temperatures close to the flash point.

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7.3 Specific end use(s): Not applicable

Storage Class: 10, Combustible liquids

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

8.2 Exposure controls

Appropriate engineering

controls:

Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information: Wash hands before breaks and after work. Use personal protective equip-

ment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be ad-

hered to inhandling the chemicals or the mineral oil products.

Eye/face protection: Safety glasses (EN 166) recommended during refilling. Avoid contact with

skin and eyes. Goggles/face shield are recommended. If risk of splashing,

wear safety goggles or face shield.

Skin protection

Hand Protection: Material: Nitrile butyl rubber (NBR).

Min. Breakthrough time: >= 480 min

Recommended thickness of the material: >= 0,38 mm

Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufactur-

er of the protective gloves and has to be observed.

Other: Do not carry cleaning cloths impregnated with the product in trouser pock-

ets. Wear suitable protective clothing.

Respiratory Protection: Ensure good ventilation/exhaustion at the workplace. Avoid breathing va-

pour/ aerosol.

Thermal hazards: Not known.

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Hygiene measures: Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated foot-

wear that cannot be cleaned.

Environmental Controls: No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: liquid
Color: Brown

Odor: Characteristic

pH: substance/mixture is non-soluble (in water)

Freezing point: not determined Boiling Point: not determined

Flash Point: 220 °C

Evaporation Rate: Not applicable for mixtures

Flammability (solid, gas): not determined

Flammability Limit - Upper (%)—:

Flammability Limit - Lower (%)—:

Vapor pressure:

Relative vapor density:

Not applicable for mixtures

Not applicable for mixtures

Not applicable for mixtures

Density: 0,84 g/cm3 (15 °C)

Solubility(ies)

Solubility in Water: Insoluble in water
Solubility (other): No data available.

Partition coefficient (n-octanol/water): Not applicable for mixtures

Autoignition Temperature: not determined

Decomposition Temperature: not determined

Kinematic viscosity: 34,7 mm2/s (40 °C)

Explosive properties:Value not relevant for classification **Oxidizing properties:**Value not relevant for classification

Particle characteristics:Not applicable9.2 Other informationNo data available.

SECTION 10: Stability and reactivity

10.1 Reactivity: Stable under normal use conditions.

10.2 Chemical Stability: Stable under normal use conditions.

10.3 Possibility of hazardous

reactions:

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Stable under normal use conditions.

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10.4 Conditions to avoid: Stable under normal use conditions.

10.5 Incompatible Materials: Strong oxidizing substances. Strong acids. Strong bases.

10.6 Hazardous Decomposition

Products:

Thermal decomposition or combustion may liberate carbon oxides and oth-

er toxic gases or vapors.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

Hydrocarbons, low vis-

cous

LD 50 (Rat): > 5.000 mg/kg

base oil, low viscous LD 50 (Rat): > 5.001 mg/kg (OECD 401)

Base oil paraffinic LD 50 (Rat): > 5.000 mg/kg

Amine aromatic, alkylat-

ed

LD 50 (Rat): > 5.000 mg/kg (OECD 401)

Alkyl amine LD 50 (Rat): 1.350 mg/kg (OECD 401)

hydroxyethyl-alkylamine LD 50 (Rat): 1.500 mg/kg

Dermal

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

Base oil paraffinic LD 50 (Rabbit): > 5.000 mg/kg

Inhalation

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

Hydrocarbons, low vis- LC 50 (Rat, 4 h): > 5 mg/l

cous Dust and mist

Skin Corrosion/Irritation:

Product: Specified substance(s) Based on available data, the classification criteria are not met.

Base oil paraffinic

OECD 404 Not irritant.

Alkyl amine OECD 404 (Rabbit, 14 d):

Causes severe skin burns.

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Serious Eye Damage/Eye Irritation:

Product: Based on available data, the classification criteria are not met.

Specified substance(s)

Base oil paraffinic OECD 405 Not irritant.

Amine aromatic, alkylat- OECD 405 (Rabbit):

ed Not irritant.

Respiratory or Skin Sensitization:

Product: Skin sensitizer: Based on available data, the classification criteria are not

met.

Respiratory sensitizer: Based on available data, the classification criteria

are not met.

Specified substance(s)

Amine aromatic, alkylat-

ed No sensitizing effect (guinea pig); OECD 406

Alkyl amine

No sensitizing effect (guinea pig); OECD 406

hydroxyethyl-alkylamine

No sensitizing effect (guinea pig); OECD 406

Germ Cell Mutagenicity

Product: Based on available data, the classification criteria are not met.

Carcinogenicity

Product: Based on available data, the classification criteria are not met.

Reproductive toxicity

Product: Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Single Exposure

Product: Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Repeated Exposure

Product: Based on available data, the classification criteria are not met.

Aspiration Hazard

Product: Based on available data, the classification criteria are not met.

Specified substance(s)

Base oil paraffinic May be fatal if swallowed and enters airways.

Other adverse effects: No data available.

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SECTION 12: Ecological information

General information: Not applicable

12.1 Toxicity

Acute toxicity

Product: Based on available data, the classification criteria are not met.

Fish

Specified substance(s)

Hydrocarbons, low vis-

cous

LC 50 (Fish, 96 h): > 750 mg/l

base oil, low viscous LC 50 (Fish, 96 h): > 100 mg/l (OECD 203)

Base oil paraffinic LC 50 (Fish, 96 h): > 100 mg/l

Amine aromatic, alkylat-

ed

LC 50 (Fish, 96 h): > 100 mg/l (OECD 203)

Alkyl amine LC 50 (Fish, 96 h): 0,1 mg/l (OECD 203)

hydroxyethyl-alkylamine LC 50 (Fish, 96 h): 0,1 mg/l (OECD 203)

Aquatic Invertebrates Specified substance(s)

Hydrocarbons, low vis-

cous

EC 50 (Water Flea, 48 h): 190 mg/l

Base oil paraffinic EC 50 (Water Flea, 48 h): > 100 mg/l

Amine aromatic, alkylat-

EC 50 (Daphnia magna): 51 mg/l (OECD 202)

Alkyl amine EC 50 (Water Flea, 48 h): 0,043 mg/l (OECD 202)

hydroxyethyl-alkylamine EC 50 (Water Flea, 48 h): 0,48 mg/l (OECD 202)

Chronic Toxicity

Product: Based on available data, the classification criteria are met.

Fish

Specified substance(s)

base oil, low viscous NOEC (Fish, 14 d): > 1.000 mg/l

Aquatic Invertebrates Specified substance(s)

base oil, low viscous NOEC (Water Flea, 21 d): 10 mg/l (OECD 211)

Base oil paraffinic NOEC (Daphnia magna, 21 d): 10 mg/l (OECD 211)

Alkyl amine EC 10 (Water Flea, 21 d): 0,0107 mg/l (OECD 211)

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hydroxyethyl-alkylamine EC 10 (Water Flea, 21 d): 0,279 mg/l (OECD 211)

Toxicity to Aquatic Plants Specified substance(s)

Hydrocarbons, low vis-

cous

EC 50 (Alga, 72 h): > 1.000 mg/l

base oil, low viscous NOEC (Alga, 72 h): > 100 mg/l (OECD 201)

Base oil paraffinic EC 50 (Algae, 72 h): > 100 mg/l (OECD 201)

Amine aromatic, alkylat-

ed

EC 50 (72 h): > 100 mg/l (OECD 201)

Alkyl amine EC 50 (Alga, 72 h): 0,0538 mg/l (OECD 201)

NOEC (Alga, 72 h): 0,0156 mg/l

hydroxyethyl-alkylamine EC 50 (Alga, 72 h): 0,107 mg/l (OECD 201)

EC 10 (Alga, 72 h): 0,0092 mg/l (OECD 201)

12.2 Persistence and Degradability

Biodegradation

Product:

Specified substance(s)

Amine aromatic, alkylat-

ed

Not applicable for mixtures

Not readily degradable.

Alkyl amine 63 % (28 d, OECD 301D) Readily biodegradable

hydroxyethyl-alkylamine > 60 % (28 d, OECD 301B) Readily biodegradable

12.3 Bioaccumulative potential

Product:

Not applicable for mixtures

12.4 Mobility in soil:

Product: Not applicable for mixtures

12.5 Results of PBT and vPvB

assessment:

The product does not contain any substances fulfilling the PBT/vPvB criteria.

12.6 Other adverse effects: Harmful to aquatic life with long lasting effects.

Water Hazard Class

(WGK):

WGK 2: significantly water-endangering.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: Dispose in accordance with all applicable regulations.

Disposal methods: Discharge, treatment, or disposal may be subject to national, state, or local

laws.

List of Waste (LoW) Codes

13 02 06*: synthetic engine, gear and lubricating oils

SECTION 14: Transport information

ADR/RID

14.1 UN number or ID number: -

14.2 UN Proper Shipping Name:

14.3 Transport Hazard Class(es)

Class: Non-dangerous goods

Label(s):

Hazard No. (ADR): Tunnel restriction code: -

runner restriction code.

14.4 Packing Group:

14.5 Environmental hazards: –

14.6 Special precautions for user: –

IMDG

14.1 UN number or ID number: -

14.2 UN Proper Shipping Name:

14.3 Transport Hazard Class(es)

Class: Non-dangerous goods

Label(s):

EmS No.:

14.3 Packing Group: -

14.5 Environmental hazards: –

14.6 Special precautions for user:

IATA

14.1 UN number or ID number: -

14.2 Proper Shipping Name:

14.3 Transport Hazard Class(es):

Class: Non-dangerous goods

Label(s):

14.4 Packing Group:

14.5 Environmental hazards:

14.6 Special precautions for user:

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable.

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SECTION 15: Regulatory information

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

GB Regulations

The Ozone-Depleting Substances and Fluorinated Greenhouse Gases (Amendment etc.) (EU Exit) Regulations 2019:

none

The Persistent Organic Pollutants (Amendment) (EU Exit) Regulations 2020:

none

15.2 Chemical safety as-

sessment:

No Chemical Safety Assessment has been carried out.

DIRECTIVE Control of Major Accident Hazards Regulations 2015:

Not applicable

SECTION 16: Other information

Revision Information: Vertical lines in the margin indicate an amendment.

Wording of the H-statements in section 2 and 3

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Other information: The classification complies with the current GB lists; however, it has been

supplemented with expert literature information and information provided by/about our company. The following evaluation methods were used: On the basis of test data; Calculation Method; Bridging Principle "Substantially simi-

lar mixtures"; Expert Judgement

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Disclaimer:

The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no signature.

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