

# **SAFETY DATA SHEET**

acc.to ISO/DIS 11014 for USA

#### PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

**Product name: TITAN FFL-8** 

Other means of identification: For further information, please refer to section 9 of the SDS.

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

Identified uses: Gear oil

Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet US Distributor

ManufacturerFuchs Schmierstoffe GmbHFuchs Lubricants Co.Friesenheimer Str. 1917050 Lathrop Avenue

68169 Mannheim Harvey, IL 60426 (708) 333-8900

Telephone: +49 621 3701-0 (ZENTRALE) (800) 255-3924 24 hrs Emergency

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**1.4 US contact telephone :** 708-333-8900 **Emergency telephone:** 800-255-3924

## 2 HAZARDS IDENTIFICATION

## 2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to the legislation in force.

#### **Environmental Hazards**

Chronic hazards to the aquatic environment Category 2

**Hazard summary** 

Physical Hazards: No data available.

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# 2.2 Label Elements

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

**Precautionary Statements** 

**Prevention:** P273: Avoid release to the environment.

**Disposal:** P501: Dispose of contents/container to an appropriate treatment and

disposal facility in accordance with applicable laws and regulations,

and product characteristics at time of disposal.

**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

environment without control.

**Unknown toxicity:**Due to information available product does not contain any ingredients of

unknown toxicity.

# 3 COMPOSITION / INFORMATION ON INGREDIENTS

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

Chemical name	Identifier	Concentration *	Notes
Hydrocarbons, low viscosity	68037-01-4	50.00 - <100.00%	
base oil, low viscous	72623-87-1	20.00 - <50.00%	
Alkyl amine	61791-44-4	0.01 - <1.00%	
prim. alkanolamine ether	218141-16-3	0.00 - <0.10%	

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### Classification

Chemical name	Identifier	Classification
Hydrocarbons, low viscosity	68037-01-4	Asp. Tox. 1;H304
base oil, low viscous	72623-87-1	Asp. Tox. 1;H304
Alkyl amine	61791-44-4	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	218141-16-3	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

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 EC 1272/2008."

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PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.



## 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

5.1 Extinguishing media

Suitable extinguishing

media:

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

added

Unsuitable extinguishing

media:

Water with a full water jet.

5.2 Special hazards arising from the substance or

mixture:

During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special fire fighting

procedures:

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.

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**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.

7.3 Specific end use(s): Not applicable

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

## 8.1. Exposure Limits

Chemical name	Туре	Exposure Limit Values	Source
base oil, low viscous - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
base oil, low viscous	PEL	500 ppm 2,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
base oil, low viscous - Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
base oil, low viscous	TWA	400 ppm 1,600 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
base oil, low viscous - Mist.	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

## 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

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

equipment 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 adhered 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. 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-butadiene 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

manufacturer of the protective gloves and has to be observed.

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

pockets. Wear suitable protective clothing.

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

vapour/ aerosol.

Thermal hazards: No data available.

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

handling the material and before eating, drinking, and/or smoking. Routinely

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wash work clothing to remove contaminants. Discard contaminated

footwear that cannot be cleaned.

**Environmental Controls:** No data available.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties Appearance

Physical state: liquid
Form: liquid
Color: Amber

Odor: Characteristic

Odor Threshold: Not applicable for mixtures

pH: Not applicable

Freezing point: Not applicable for mixtures

**Boiling Point:** Value not relevant for classification

Flash Point: > 200 °C (DIN EN ISO 2592)

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**Evaporation Rate:** Not applicable for mixtures

Flammability (solid, gas): Value not relevant for classification

Flammability Limit - Upper (%)—:

Flammability Limit - Lower (%)—:

Vapor pressure:

Not applicable for mixtures

Not applicable for mixtures

Not applicable for mixtures

Not applicable for mixtures

**Density:** 0.83 g/cm3 (20 °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: Value not relevant for classification

Decomposition Temperature: Value not relevant for classification

Kinematic viscosity: 25 mm2/s (40 °C)

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

**9.2 Other information** No 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:

Stable under normal use conditions.

**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

other toxic gases or vapors.

# 11 TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

**Inhalation:** No data available.

**Ingestion:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

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**Acute toxicity** 

Oral

**Product:** 

Not classified for acute toxicity based on available data.

Specified substance(s)

Hydrocarbons, low

viscosity

LD 50 (Rat): > 5,000 mg/kg

base oil, low viscous LD 50 (Rat): > 5,001 mg/kg (OECD 401)

Alkyl amine LD 50 (Rat): 1,350 mg/kg (OECD 401)

**Dermal** 

**Product:** 

Not classified for acute toxicity based on available data.

Inhalation

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Hydrocarbons, low viscosity

LC 50 (Rat, 4 h): > 5 mg/l Dusts, mists and fumes

Skin Corrosion/Irritation:

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

Serious Eye Damage/Eye Irritation:

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

Respiratory or Skin Sensitization:

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

Respiratory sensitizer: Based on available data, the classification criteria

are not met.

Specified substance(s)

Alkyl amine 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.

IARC: IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

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NTP: US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

OSHASP: US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

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.

#### 12 ECOLOGICAL INFORMATION

## 12.1 Toxicity

**Acute toxicity** 

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

**Fish** 

Specified substance(s)

Hydrocarbons, low

viscosity

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

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

Alkyl amine LC 50 (Fish, 96 h): 0.1 mg/l (OECD 203)

Aquatic Invertebrates Specified substance(s)

Hydrocarbons, low

viscosity

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

Alkyl amine EC 50 (Water Flea, 48 h): 0.043 mg/l (OECD 202)

Chronic ToxicityProduct: 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)

Alkyl amine EC 10 (Water Flea, 21 d): 0.0107 mg/l (OECD 211)

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Toxicity to Aquatic Plants Specified substance(s)

Hydrocarbons, low

viscosity

EC 50 (Alga, 72 h): > 1,000 mg/l

base oil, low viscous NOEC (Alga, 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

12.2 Persistence and Degradability

Biodegradation

**Product:** Not applicable for mixtures

Specified substance(s)

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

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.

14 TRANSPORT INFORMATION

**DOT** 

Not regulated.

**IMDG - International Maritime Dangerous Goods Code** 

Not regulated.

**IATA** 

Not regulated.

15 REGULATORY INFORMATION

**US Federal Regulations** 

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#### **US State Regulations**

**Inventory Status** 

DSL	On or in compliance with the inventory
TSCA	On or in compliance with the inventory

#### 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.
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H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. 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.

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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

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