

SAFETY DATA SHEET

acc.to ISO/DIS 11014 for USA

1 PRODUCT AND COMPANY IDENTIFICATION**1.1 Product identifier****Product name:** TITAN EG 4835**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:** Lubricant**Uses advised against:** No uses advised against identified.**1.3 Details of the supplier of the safety data sheet****Manufacturer / Supplier**

FUCHS LUBRICANTS GERMANY GmbH

Friesenheimer Str. 19

68169 Mannheim

Telephone:

+49 621 3701-0 (ZENTRALE)

Fax:

+49 621 3701-570

US Distributor

Fuchs Lubricants Co.

17050 Lathrop Avenue

Harvey, IL 60426

Contact for request of safety data sheets

E-mail:

Automotive lubricants

CS.Services-FLG@fuchs.com

Industrial lubricants

Telephone:

+49 621 3701-0 (ZENTRALE)

Informing department for safety data sheets

E-mail:

produktsicherheit-FLG@fuchs.com

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.****Health Hazards**

Skin sensitizer

Category 1

Toxic to reproduction

Category 2

Environmental Hazards

Acute hazards to the aquatic environment

Category 3

Chronic hazards to the aquatic environment

Category 2

Product name: TITAN EG 4835

Hazard summary

Physical Hazards: No data available.

2.2 Label Elements



Signal Words: Warning

Hazard Statement(s): H361f: Suspected of damaging fertility.
H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention: P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P273: Avoid release to the environment.
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response: P308+P313: IF exposed or concerned: Get medical advice/attention.
P391: Collect spillage.

Storage: P405: Store locked up.

Disposal: P501: Dispose of contents/ container to an approved facility in accordance 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 environment without control.

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

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

General information: Mixture of synthetic base oils with additives.

Chemical name	Identifier	Concentration *	Notes
Hydrocarbons, low viscous	68037-01-4	20.00 - <50.00%	
Base oil paraffinic	64742-54-7	1.00 - <5.00%	
Alkyl dithiophosphate	255881-94-8	0.25 - <1.00%	

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alkylamine	68955-53-3	0.25 - <1.00%	
Amine aromatic , alkylated	68411-46-1	0.10 - <1.00%	
ethoxylated amine	25307-17-9	0.01 - <0.10%	

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

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Identifier	Classification
Hydrocarbons, low viscous	68037-01-4	Asp. Tox. 1;H304
Base oil paraffinic	64742-54-7	
Alkyl dithiophosphate	255881-94-8	Aquatic Acute 1;H400, Aquatic Chronic 1;H410, Repr. 2;H361; M-Factor (aquatic acute): 1; M-Factor (aquatic chronic): 10
alkylamine	68955-53-3	Skin Corr. 1B;H314, Skin Sens. 1A;H317, Eye Dam. 1;H318, Aquatic Acute 1;H400, Aquatic Chronic 1;H410, Acute Tox. 4;H302, Acute Tox. 3;H311, Acute Tox. 2;H330
Amine aromatic , alkylated	68411-46-1	Repr. 2;H361f, Aquatic Chronic 3;H412
ethoxylated amine	25307-17-9	Acute Tox. 4;H302, Skin Corr. 1B;H314, Aquatic Acute 1;H400, Aquatic Chronic 1;H410, Eye Dam. 1;H318; M-Factor (aquatic acute): 10; M-Factor (aquatic chronic): 1

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

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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 in accordance 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.

7.3 Specific end use(s): Not applicable

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Product name: TITAN EG 4835

8.1.Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
Base oil paraffinic	PEL	500 ppm 2,000 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Base oil paraffinic - Mist.	PEL	5 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Base oil paraffinic	TWA	400 ppm 1,600 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Base oil paraffinic - Mist.	TWA	5 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Base oil paraffinic - Mist.	PEL	5 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (01 2017)
Base oil paraffinic - Mist.	TWA	5 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (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

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 in handling the chemicals or the mineral oil products.

Eye/face protection:

Safety glasses (EN 166) recommended during refilling.

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 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.

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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 footwear that cannot be cleaned.

Environmental Controls: No data available.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	liquid
Color:	Yellow
Odor:	Characteristic
Odor Threshold:	Not applicable for mixtures
pH:	substance/mixture is non-soluble (in water)
Freezing point:	Not applicable for mixtures
Boiling Point:	Value not relevant for classification
Flash Point:	226 °C
Evaporation Rate:	Not applicable for mixtures
Flammability (solid, gas):	Value not relevant for classification
Explosion Limit - Upper (%):	Not applicable for mixtures
Explosion Limit - Lower (%):	Not applicable for mixtures
Vapor pressure:	Not applicable for mixtures
Relative vapor density:	Not applicable for mixtures
Density:	0.84 g/ml (15.00 °C)
Solubility(ies)	
Solubility in Water:	Insoluble in water
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable for mixtures
Auto-ignition temperature:	Value not relevant for classification
Decomposition Temperature:	Value not relevant for classification
Kinematic viscosity:	75 mm ² /s (40.00 °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.

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- 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.

Acute toxicity**Oral****Product:**

Not classified for acute toxicity based on available data.

Specified substance(s)

- | | |
|----------------------------|---------------------------------------|
| Hydrocarbons, low viscous | LD 50 (Rat): > 5,000 mg/kg |
| Base oil paraffinic | LD 50 (Rat): > 5,000 mg/kg |
| alkylamine | LD 50 (Rat): 612 mg/kg (OECD 401) |
| Amine aromatic , alkylated | LD 50 (Rat): > 5,000 mg/kg (OECD 401) |
| ethoxylated amine | LD 50 (Rat): 1,350 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 |
| Alkyl dithiophosphate | LD 50 (Rat): > 5,000 mg/kg |
| alkylamine | LD 50 (Rat): 251 mg/kg (OECD 402) |

Product name: TITAN EG 4835

Inhalation**Product:**

Not classified for acute toxicity based on available data.

Specified substance(s)Hydrocarbons, low
viscousLC 50 (Rat, 4 h): > 5 mg/l
Dust and mist

Base oil paraffinic

LC 50 (Rat, 4 h): > 5.1 mg/l
Dust and mist

alkylamine

LC 50 (Rat, 4 h): 1.19 mg/l (OECD 403)

Skin Corrosion/Irritation:**Product:**

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

Specified substance(s)

Base oil paraffinic

OECD 404 Not irritant.

Alkyl dithiophosphate

OECD 404 (Rabbit): Not irritant.

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.

Alkyl dithiophosphate

OECD 405 (Rabbit): Not irritant.

Amine aromatic ,
alkylated

OECD 405 (Rabbit): Not irritant.

Respiratory or Skin Sensitization:**Product:**

The evaluation of the sensitization potential is based on data of similar product components. This preparation should not cause allergic skin reactions.

Specified substance(s)

Base oil paraffinic

No sensitizing effect (guinea pig); OECD 406

Alkyl dithiophosphate

No sensitizing effect (guinea pig); OECD 406

Amine aromatic ,
alkylated

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

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

Product name: TITAN EG 4835

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 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. Based on available data, the classification criteria are met.**Fish****Specified substance(s)**

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

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

alkylamine LL 50 (Fish, 96 h): 1.3 mg/l

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

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

Aquatic Invertebrates**Specified substance(s)**

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

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

alkylamine EL50 (Water Flea, 48 h): 2.5 mg/l

Amine aromatic , alkylated EC 50 (Daphnia magna): 51 mg/l (OECD 202)

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

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Chronic ToxicityProduct: Based on available data, the classification criteria are met.**Fish****Specified substance(s)**

Base oil paraffinic NOEL (Fish, 14 d): 1,000 mg/l

alkylamine NOEC (Fish, 96 d): 0.078 mg/l

Aquatic Invertebrates**Specified substance(s)**

Base oil paraffinic NOEL (Water Flea, 21 d): 10 mg/l

Toxicity to Aquatic Plants**Specified substance(s)**

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

Base oil paraffinic NOEC (Alga, 72 h): > 100 mg/l

alkylamine ErC50 (Alga, 72 h): 0.44 mg/l

Amine aromatic , alkylated EC 50 (72 h): > 100 mg/l (OECD 201)

ethoxylated amine EC 50 (Alga, 72 h): 0.0867 mg/l (OECD 201)

12.2 Persistence and Degradability**Biodegradation****Product:** Not applicable for mixtures**Specified substance(s)**

Base oil paraffinic 31 % (28 d)

alkylamine 21.8 % (28 d, OECD 301D) Not easily biodegradable

Amine aromatic , alkylated Not readily degradable.

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.

Product name: TITAN EG 4835

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

14.1 UN number or ID number: UN 3082

14.2 Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Alkyl dithiophosphate)

14.3 Transport Hazard Class(es): 9

14.4 Subsidiary risk label: —

14.5 Packing Group: III

14.6 Label(s): 9

14.7 Marine Pollutant: Marine pollutant

IMDG - International Maritime Dangerous Goods Code

14.1 UN number or ID number: UN 3082

14.2 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alkyl dithiophosphate)

14.3 Transport Hazard Class(es): 9

14.4 Subsidiary risk label: —

14.5 Packing Group: III

14.6 Label(s): 9

14.7 Marine Pollutant: Marine pollutant

14.8 EmS No.: F-A; S-F

IATA

14.1 UN number or ID number: UN 3082

14.2 Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Alkyl dithiophosphate)

14.3 Transport Hazard Class(es): 9

14.4 Subsidiary risk label: —

14.5 Packing Group: III

14.6 Label(s): 9MI

14.7 Marine Pollutant: Dangerous for the environment

Amounts up to 5kg or 5 L are not regulated, (ADR/RID SP 375, IMDG 2.10.2.7, IATA SP A197)

15 REGULATORY INFORMATION
US Federal Regulations
US State Regulations
Inventory Status

TSCA	On or in compliance with the inventory
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Product name: TITAN EG 4835

DSL	Q (quantity restricted)
NDSL	Not 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.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H361	Suspected of damaging fertility or the unborn child.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Revision Date: 13.12.2023

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.