

SAFETY DATA SHEET

acc.to ISO/DIS 11014 for USA

1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name: TITAN ZH 4300 B

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

Fuchs Schmierstoffe GmbH
Friesenheimer Str. 19
68169 Mannheim

US Distributor

Fuchs Lubricants Co.
17050 Lathrop Avenue
Harvey, IL 60426

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Contact Person:

Fuchs Schmierstoffe GmbH Abteilung Produktsicherheit

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PRODUKTSICHERHEIT@FUCHS-SCHMIERSTOFFE.DE

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

Acute toxicity (Inhalation - dust and mist) Category 4

Aspiration Hazard Category 1

Environmental Hazards

Chronic hazards to the aquatic environment Category 3

Hazard summary

Physical 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.

Environmental hazards: This product is water polluting.

Product name: TITAN ZH 4300 B

2.2 Label Elements



Signal Words: Danger

Hazard Statement(s): H332: Harmful if inhaled.
H304: May be fatal if swallowed and enters airways.
H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention: P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.

Response: P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331: Do NOT induce vomiting.
P312: Call a POISON CENTRE/doctor if you feel unwell.

Storage: P405: Store locked up.

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: No data available.

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

3 COMPOSITION / INFORMATION ON INGREDIENTS

General information: Mixture of synthetic base oils with additives.

Chemical name	Identifier	Concentration *	Notes
Hydrocarbons, low viscosity	68649-11-6	60.00 - 100.00%	
Base oil, naphthenic	64742-53-6	10.00 - 30.00%	
Base oil, low viscous	64742-79-6	3.00 - 7.00%	
phenolic antioxidant	128-37-0	0.10 - 1.00%	NPBT NVPVB

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

Product name: TITAN ZH 4300 B

PBT: persistent, bioaccumulative and toxic substance.
 vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Identifier	Classification
Hydrocarbons, low viscosity	68649-11-6	Asp. Tox. 1;H304, Acute Tox. 4;H332
Base oil, naphthenic	64742-53-6	Asp. Tox. 1;H304
Base oil, low viscous	64742-79-6	Asp. Tox. 1;H304, Acute Tox. 4;H332, Skin Irrit. 2;H315, Aquatic Chronic 2;H411
phenolic antioxidant	128-37-0	Aquatic Acute 1;H400, Aquatic Chronic 1;H410

4 FIRST AID MEASURES

General: Change clothes and shoes contaminated or soaked by the product. Never put rags contaminated by the product into clothing pockets.

4.1 Description of first aid measures

Inhalation: Supply fresh air and call for doctor for safety reasons.

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

Skin Contact: Wash with soap and water. The product is not skin irritating.

Ingestion: Rinse mouth thoroughly.

4.2 Most important symptoms and effects, both acute and delayed: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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: No data available.

Product name: TITAN ZH 4300 B

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:** Prevent from spreading (e.g. by binding or oil barriers).
- 6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust).
- 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:** Use only in well-ventilated areas. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products.
- 7.2 Conditions for safe storage, including any incompatibilities:** Local regulations concerning handling and storage of waterpolluting products have to be followed. Prevent formation of aerosols. 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 ZH 4300 B

8.1.Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
Base oil, naphthenic	PEL	500 ppm 2,000 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Base oil, naphthenic - Mist.	PEL	5 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Base oil, naphthenic	TWA	400 ppm 1,600 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Base oil, naphthenic - Mist.	TWA	5 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Base oil, naphthenic - Inhalable fraction.	TWA	5 mg/m ³	US. ACGIH Threshold Limit Values (03 2014)
phenolic antioxidant	TWA	10 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
phenolic antioxidant - Inhalable fraction and vapor.	TWA	2 mg/m ³	US. ACGIH Threshold Limit Values (02 2012)

8.2.Exposure controls

Appropriate engineering controls: No data available.

Individual protection measures, such as personal protective equipment

General information: Keep away from food, drink and animal feeding stuffs.

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

Skin protection

Hand Protection:

Material: Nitrile-butadiene rubber (NBR).
 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: In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor. 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 wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

Environmental Controls: No data available.

9 PHYSICAL AND CHEMICAL PROPERTIES

Product name: TITAN ZH 4300 B

9.1 Information on basic physical and chemical properties

Physical state:	liquid
Form:	liquid
Color:	Green
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:	160 °C
Evaporation Rate:	Not applicable for mixtures
Flammability (solid, gas):	Value not relevant for classification
Flammability Limit - Upper (%)—:	Not applicable for mixtures
Flammability Limit - Lower (%)—:	Not applicable for mixtures
Vapor pressure:	Not applicable for mixtures
Vapor density (air=1):	Not applicable for mixtures
Density:	0.83 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
Autoignition Temperature:	Value not relevant for classification
Decomposition Temperature:	Value not relevant for classification
Kinematic viscosity:	18.5 mm ² /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 temperature conditions and recommended use.
10.2 Chemical Stability:	No data available.
10.3 Possibility of hazardous reactions:	None under normal conditions.
10.4 Conditions to avoid:	Avoid heat or contamination.
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

Product name: TITAN ZH 4300 B

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
viscosity

LD 50 (Rat): > 5,001 mg/kg

phenolic antioxidant

LD 50 (Rat): 2,930 mg/kg (OECD 401)

Dermal

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

phenolic antioxidant

LD 50 (Rat): > 5,000 mg/kg (OECD 402)

Inhalation

Product:

ATEmix: 241.23 mg/l

Vapour

ATEmix: 1.72 mg/l

Dusts, mists and fumes

Specified substance(s)

Hydrocarbons, low
viscosity

LC 50 (Rat, 4 h): 1.17 mg/l

Dusts, mists and fumes

Base oil, naphthenic

LC 50 (Rat, 4 h): > 5.53 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:

Product:

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

Product name: TITAN ZH 4300 B

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)

phenolic antioxidant 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:

No carcinogenic components identified

OSHAS: 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 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): > 1,000 mg/l

Base oil, naphthenic LC 50 (Fish, 96 h): > 101 mg/l

Product name: TITAN ZH 4300 B

Aquatic Invertebrates

Specified substance(s)

Hydrocarbons, low viscosity EC 50 (Water Flea, 48 h): > 1,000 mg/l

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

Aquatic Invertebrates

Specified substance(s)

phenolic antioxidant NOEC (Water Flea, 21 d): > 0.39 mg/l

Toxicity to Aquatic Plants

Specified substance(s)

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

12.2 Persistence and Degradability

Biodegradation

Product: Not applicable for mixtures

Specified substance(s)

phenolic antioxidant 30 % (OECD 302C)

12.3 Bioaccumulative potential

Product: Not applicable for mixtures

Specified substance(s)

phenolic antioxidant May be accumulated in organism

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: No data available.

13 Disposal considerations

13.1 Waste treatment methods

General information: Dispose in accordance with all applicable regulations.

Disposal methods: Do not empty into drains; dispose of this material and its container in a safe way. When storing used products, ensure that the waste categories and mixing instructions are observed.

14 TRANSPORT INFORMATION

DOT

Not regulated.

Product name: TITAN ZH 4300 B

IMDG - International Maritime Dangerous Goods Code

Not regulated.

IATA

Not regulated.

15 REGULATORY INFORMATION

US Federal Regulations

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

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H332	Harmful if inhaled.
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.

Training information: Follow training instructions when handling this material.

Revision Date: 19.02.2018

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.