

SAFETY DATA SHEET

acc.to ISO/DIS 11014 for USA

1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name: TITAN UNIVERSAL HD 20W-20

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 |

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 not been classified as hazardous and does not need to be labelled according to the legislation in force.

Hazard summary

Physical Hazards: No data available.

| | |
|---------------------------|----------------|
| 2.2 Label Elements | Not applicable |
|---------------------------|----------------|

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- 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 containing severely refined base oils and additives.

| Chemical name | Identifier | Concentration * | Notes |
|---|-------------|-----------------|-------|
| Calcium long-chain alkylphenate sulfide | 68784-26-9 | 1.00 - <5.00% | |
| ZnDTP | 68784-31-6 | 1.00 - <2.50% | |
| Phenol derivative | 121158-58-5 | 0.01 - <0.25% | |

* 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 |
|---|-------------|---|
| Calcium long-chain alkylphenate sulfide | 68784-26-9 | Aquatic Chronic 4;H413 |
| ZnDTP | 68784-31-6 | Eye Dam. 1;H318, Aquatic Chronic 2;H411 |
| Phenol derivative | 121158-58-5 | Skin Corr. 1C;H314, Eye Dam. 1;H318, Repr. 1B;H360F, Aquatic Acute 1;H400, Aquatic Chronic 1;H410; M-Factor (aquatic acute): 10; M-Factor (aquatic chronic): 10 |

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 Nota L/ Nota N of Annex VI of Regulation EC 1272/2008."

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; consult doctor in case of symptoms.
- Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
- Skin Contact:** Wash with soap and water. The product is not skin irritating.
- Ingestion:** Rinse mouth thoroughly.

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- 4.2 Most important symptoms and effects, both acute and delayed:** Causes serious 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 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. Do not contaminate water sources or sewer. 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.

Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

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SECTION 7: Handling and storage:

- 7.1 Precautions for safe handling:** Avoid contact with eyes. Wash hands thoroughly after handling. 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
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 - Inhalable fraction. | TWA | | 5 mg/m ³ | US. ACGIH Threshold Limit Values, as amended (03 2014) |
| Base oil paraffinic - Inhalable fraction. | TWA | | 5 mg/m ³ | US. ACGIH Threshold Limit Values, as amended (03 2014) |
| 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) |
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| base oil - Mist. | TWA | | 5 mg/m ³ | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989) |

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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.

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 |
| Form: | liquid |
| Color: | Light brown |
| Odor: | Characteristic |
| Odor Threshold: | Not applicable for mixtures |
| pH: | substance/mixture is non-soluble (in water) |

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| | |
|---|---------------------------------------|
| Freezing point: | Not applicable for mixtures |
| Boiling Point: | Not applicable |
| Flash Point: | 228 °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 |
| Relative vapor density: | Not applicable for mixtures |
| Density: | 0.89 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: | 64 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

| | |
|----------------------|--------------------|
| 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.

Dermal

Product:

Not classified for acute toxicity based on available data.

Inhalation

Product:

Not classified for acute toxicity based on available data.

Skin Corrosion/Irritation:

Product:

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

Serious Eye Damage/Eye Irritation:

Product:

Classified as "not irritant"; classification was performed in analogy to similar products, which were tested in the "OECD405 test" for eye irritation.

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.

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.

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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)**

Phenol derivative LC 50 (Fish, 96 h): 0.14 mg/l

Aquatic Invertebrates**Specified substance(s)**

Calcium long-chain alkylphenate sulfide EC 50 (Water Flea, 48 h): > 1,000 mg/l (OECD 202)

ZnDTP EC 50 (Water Flea, 48 h): 1.2 mg/l

Phenol derivative EC 50 (Water Flea, 48 h): 0.017 mg/l

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

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

Phenol derivative EC 50 (Alga, 72 h): 0.091 mg/l

12.2 Persistence and Degradability**Biodegradation**

Product: Not applicable for mixtures

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: No data available.

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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.

TDG

Not Regulated.

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

| | |
|-------|---|
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| H360F | May damage 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. |
| H413 | May cause long lasting harmful effects to aquatic life. |

Revision Date: 20.09.2023

Product name: TITAN UNIVERSAL HD 20W-20

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.