

SAFETY DATA SHEET

Classified in accordance with Health Canada Hazardous Products Regulations (SOR/2015-17)

1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name: TITAN FRICOFIN DP 50

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

1.2 Recommended use and restriction on use

Recommended use: Antifreeze/coolant Containers ≥ 20 l for commercial use only

Restrictions on use: 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

(708) 333-8900

(800) 255-3924 24 hrs

Emergency

1.4 Emergency telephone number: +49 621 3701-0 (Mo - Fr 08:00 am - 04:00 pm, GMT + 1)

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

Reproductive toxicity

Category 2

Specific Target Organ Toxicity - Repeated Exposure

Category 2

2.2 Label Elements



Signal Words:

Warning

Hazard Statement(s):

H361d: Suspected of damaging the unborn child.

H373: May cause damage to organs through prolonged or repeated exposure.

Product name: TITAN FRICOFIN DP 50

Precautionary Statements

Prevention: P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

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

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 the substances listed below with harmless additions.

Chemical name	Identifier	Concentration (%w/w)	Notes
Ethanediol	107-21-1	30.00 - 60.00	
Na-Sebacat	17265-14-4	1.00 - 5.00	
Tolutriazole derivative	64665-57-2	0.10 - 1.00	

A specific chemical identity and/or percentage of composition has been withheld as a trade secret.

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Identifier	Classification
Ethanediol	107-21-1	Acute Tox. 4;H302, STOT RE 2;H373
Na-Sebacat	17265-14-4	Eye Irrit. 2;H319
Tolutriazole derivative	64665-57-2	Acute Tox. 4;H302, Skin Corr. 1B;H314, Aquatic Chronic 2;H411, Eye Dam. 1;H318, Repr. 2;H361d

4 FIRST AID MEASURES

General: Instantly remove any clothing soiled by the product.

Product name: TITAN FRICOFIN DP 50

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:	CO ₂ , 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: Prevent from spreading (e.g. by binding or oil barriers). Avoid release to the environment. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so. Do not allow to enter drainage system, surface or ground water.

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| 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:

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|--|---|
| 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. |
| 7.3 Specific end use(s): | Not applicable |

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1.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 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:

Avoid contact with skin and eyes. Goggles/face shield are recommended. If risk of splashing, wear safety goggles or face shield.

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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**Appearance****Physical state:**

liquid

Form:

liquid

Color:

light pink

Odor:

Characteristic

Odor Threshold:

Not applicable for mixtures

pH:

8.3 (DIN 51369, 529 g/l, 20 °C)

Freezing point:

Not applicable for mixtures

Boiling Point:

Value not relevant for classification

Flash Point:

> 100 °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

Relative density:

1.07 g/ml (15.00 °C)

Solubility(ies)**Solubility in Water:**

Soluble

Solubility (other):

No data available.

Product name: TITAN FRICOFIN DP 50

Partition coefficient (n-octanol/water):	Not applicable for mixtures
Auto-ignition temperature:	Value not relevant for classification
Decomposition Temperature:	Value not relevant for classification
Flow time:	Value not relevant for classification
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.

Acute toxicity

Oral

Product:	ATEmix: 3,354.93 mg/kg
Specified substance(s)	
Ethanediol	LD 50 (Human): 1,600 mg/kg
Na-Sebacat	LD 50 (Rat): > 5,000 mg/kg (OECD 401)
Tolutriazole derivative	LD 50 (Rat): 735 mg/kg (OECD 401)

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Dermal**Product:**

ATEmix: 7,338.91 mg/kg

Specified substance(s)

Ethanediol

LD 50 (Mouse): 3,500 mg/kg

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.

Specified substance(s)

Ethanediol

(Rabbit, 20 h): Not irritating

Serious Eye Damage/Eye Irritation:**Product:**

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

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)

Ethanediol

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

ACGIH: US.ACGIH Threshold Limit Values:

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.

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Specific Target Organ Toxicity - Repeated Exposure**Product:** Based on available data, the classification criteria are met.**Specified substance(s)**

Ethanediol

Kidney

May cause damage to kidneys through prolonged or repeated exposure if swallowed

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

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)**

Ethanediol

LC 50 (Fish, 96 h): 72,860 mg/l

Na-Sebacat

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

Tolutriazole derivative

LC 50 (Fish, 96 h): 25 mg/l

Aquatic Invertebrates**Specified substance(s)**

Ethanediol

EC 50 (Water Flea, 48 h): > 100 mg/l (OECD 202)

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

Ethanediol

NOEC (Fish, 7 d): 15,380 mg/l

Aquatic Invertebrates**Specified substance(s)**

Ethanediol

NOEC (Water Flea, 7 d): 8,590 mg/l

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

Tolutriazole derivative

EC 50 (Alga, 72 h): 26.2 mg/l

12.2 Persistence and Degradability**Biodegradation****Product:** Not applicable for mixtures

Product name: TITAN FRICOFIN DP 50

Specified substance(s)

Ethanediol	> 90 % (10 d, OECD 301A) The product is easily biodegradable.
Tolutriazole derivative	70 % (28 d) 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:

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

TDG

Not Regulated.

IMDG - International Maritime Dangerous Goods Code

Not Regulated.

IATA

Not Regulated.

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

15 REGULATORY INFORMATION

Inventory Status

TSCA	E (special case)
DSL	Q (quantity restricted)

16 OTHER INFORMATION

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

Product name: TITAN FRICOFIN DP 50

Wording of the H-statements in section 2 and 3

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Revision Date: 15.05.2024

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.