

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: MB 228.3 T-MF12-1

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

US Distributor Fuchs Lubricants Co. 17050 Lathrop Avenue Harvey, IL 60426 (708) 333-8900

Manufacturer / Supplier	Fuchs Schmierstoffe GmbH Friesenheimer Str. 19 68169 Mannheim	(708) 333-8900 (800) 255-3924 24 hrs Emergency
Telephone: Fax:	+49 621 3701-0 (ZENTRALE) +49 621 3701-570	

Contact for request of safety data sheets

E-mail:	Automotive lubricants Industrial lubricants	automotive-FS@fuchs.com industrie-FS@fuchs.com
Telephone: Fax:	+49 621 3701-0 (ZENTRALE) +49 621 3701-570	

Informing department for safety data sheets

E-mail:	produktsicherheit-FS@fuchs.com	
Telephone:	+49 621 3701-1333	
Fax:	+49 621 3701-7303	
1.4 Emergency telephone number:	+49 621 3701-1333 / +49 621 3701-0 (Mo-Do 8-17, Fr 8-16)	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has not been classified as hazardous, but needs to be labelled according to regulation (EU) 1272/2008 (CLP).

Classification according to Regulation (EC) No 1272/2008 as amended.

Hazard summary **Physical Hazards:**

No data available.



2.2 Label Elements

EUH210: Safety data sheet available on request.

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: Mixture containing severely refined base oils and additives. This product is a trial product. All information complies with the current state of knowledge. The final specification will be established with the commercialization of the product.

Chemical name	Identifier		REACH Registra- tion No.	Notes
Base oil, low viscous	EINECS: 265-158-7	1,00% - <10,00%	01-2119487077-29	
Calcium long-chain alkylphenate sulfide	Polymer	1,00% - <5,00%		

* 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	
Base oil, low viscous	EINECS: 265-158-7	CLP:	Asp. Tox. 1;H304
Calcium long-chain alkylphenate sulfide	Polymer	CLP:	Aquatic Chronic 4;H413

CLP: Regulation No. 1272/2008.

For the wording of the listed hazard statements refer to section 16.

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."

SECTION 4: First aid measures		
General:	Instantly remove any clothing soiled by the product.	
4.1 Description of first aid	d 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.	



Product name: MID 226.3 1-WIF 12	•1	
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 spe- cial treatment needed	Get medical attention if symptoms occur.	
SECTION 5: Firefighting measure	S	
5.1 Extinguishing media		
Suitable extinguishing me- dia:	CO2, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant add-ed	
Unsuitable extinguishing media:	Water with a full water jet.	
5.2 Special hazards arising from the substance or mix- ture:	During fire, gases hazardous to health may be formed.	
5.3 Advice for firefighters		
Special fire fighting proce- dures:	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 equip- ment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	
SECTION 6: Accidental release m	easures	
6.1 Personal precautions, pro- tective 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.	
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 regula- tions. Stop the flow of material, if this is without risk.	
6.4 Reference to other sec- tions:	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.	



7.1 Precautions for safe han-	Prevent formation of aerosols. Do not eat, drink or smoke when working
dling:	with the product. Take usual precautions when handling mineral oil prod- ucts or chemical products. Observe good industrial hygiene practices. Pro- vide adequate ventilation.
7.2 Conditions for safe storage, including any incompatibili- ties:	Local regulations concerning handling and storage of waterpolluting prod- ucts have to be followed. Do not heat up to temperatures close to the flash point.
7.3 Specific end use(s):	No data available.
Storage Class:	10, Combustible liquids
SECTION 8: Exposure controls/pe	ersonal protection

8.1 Control Parameters

Occupational 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 condi- tions. 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 air- borne levels to an acceptable level.
Individual protection measure	es, such as personal protective equipment
General information:	Wash hands before breaks and after work. Use personal protective equip- ment as required. Personal protection equipment should be chosen accord- ing to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be ad- hered 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.
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 recom- mended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety direc- tions. The exact break through time has to be found out by the manufactur-
Other:	er of the protective gloves and has to be observed. Do not carry cleaning cloths impregnated with the product in trouser pock- ets. Wear suitable protective clothing.



Respiratory Protection:	Ensure good ventilation/exhaustion at the workplace. Avoid breathing vapour/ aerosol.
Thermal hazards:	Not known.
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 foot- wear that cannot be cleaned.
Environmental Controls:	No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

1 2	
Appearance	
Physical state:	liquid
Form:	liquid
Color:	No data available.
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:	244 °C
Evaporation Rate:	Not applicable for mixtures
Flammability (solid, gas):	Value not relevant for classification
Flammability Limit - Upper (%)–:	Value not relevant for classification
Flammability Limit - Lower (%)–:	Value not relevant for classification
Vapor pressure:	Not applicable for mixtures
Relative vapor density:	Not applicable for mixtures
Density:	0,88 g/cm3 (15 °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:	108 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.	
SECTION 11: Toxicological inform	nation	

11.1 Information on toxicological effects

Acute toxicity

Oral Product:		
Specified substance(s)	Not classified for acute toxicity based on available data.	
Base oil, low viscous	LD 50 (Rat): > 5.000 mg/kg	
Calcium long-chain al- kylphenate sulfide	LD 50 (Rat): > 5.000 mg/kg	
Dermal Product:		
	Not classified for acute toxicity based on available data.	
Specified substance(s) Base oil, low viscous	LD 50 (Rabbit): > 5.000 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.	
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. Respiratory sensitizer: Based on available data, the classification criteria are not met.		



ECTION 12: Ecological information 2.1 Toxicity	
Other adverse effects:	No data available.
Aspiration Hazard Product:	Based on available data, the classification criteria are not met.
Specific Target Organ Tox Product:	ticity - Repeated Exposure Based on available data, the classification criteria are not met.
Specific Target Organ Tox Product:	kicity - Single Exposure Based on available data, the classification criteria are not met.
Reproductive toxicity Product:	Based on available data, the classification criteria are not met.
Carcinogenicity Product:	Based on available data, the classification criteria are not met.
Germ Cell Mutagenicity Product:	Based on available data, the classification criteria are not met.

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

Fish Specified substance(s) Base oil, low viscous	LC 50 (Fish, 96 h): > 1.000 mg/l
Aquatic Invertebrates Specified substance(s) Base oil, low viscous	EC 50 (Water Flea, 48 h): > 1.000 mg/l
Chronic ToxicityProduct:	Based on available data, the classification criteria are not met.
Aquatic Invertebrates Specified substance(s) Base oil, low viscous	NOEC (Water Flea, 21 d): 10 mg/l
Toxicity to Aquatic Plants Specified substance(s) Base oil, low viscous	EC 50 (Alga, 72 h): > 1.000 mg/l
12.2 Persistence and Degradability	
Biodegradation Product:	Not applicable for mixtures
12.3 Bioaccumulative potential Product:	Not applicable for mixtures

Acute toxicity Product:



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.
Water Hazard Class (WGK):	WGK 1: slightly water-endangering.
SECTION 13: Disposal considerations	
13.1 Waste treatment methods	
13.1 Waste treatment methods General information:	Dispose in accordance with all applicable regulations.
	Dispose in accordance with all applicable regulations. 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.

13 02 05*: mineral-based non-chlorinated engine, gear and lubricating oils

SECTION 14: Transport information	
ADR/RID	
14.1 UN Number:	-
14.2 UN Proper Shipping Name: 14.3 Transport Hazard Class(es)	-
Class:	Non-dangerous goods
Label(s):	-
Hazard No. (ADR):	-
Tunnel restriction code:	-
14.4 Packing Group:	_
14.5 Environmental hazards:	-
14.6 Special precautions for user:	-
ADN	
14.1 UN Number:	-
14.2 UN Proper Shipping Name:	-
14.3 Transport Hazard Class(es)	
Class:	Non-dangerous goods
Label(s):	-
14.3 Packing Group:	-
14.5 Environmental hazards:	-
14.6 Special precautions for user:	-



IMDG 14.1 UN Number: 14.2 UN Proper Shipping Name: 14.3 Transport Hazard Class(es) Class: Label(s): EmS No.:	– – Non-dangerous goods – –
14.3 Packing Group:	-
14.5 Environmental hazards:	-
14.6 Special precautions for user:	-
IATA 14.1 UN Number: 14.2 Proper Shipping Name: 14.3 Transport Hazard Class(es): Class: Label(s):	– – Non-dangerous goods –
14.4 Packing Group:	-
14.5 Environmental hazards:	-
14.6 Special precautions for user:	-

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

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

15.2 Chemical safety as- No Chemical Safety Assessment has been carried out. **sessment:**

SECTION 16: Other information

Revision Information:	Vertical lines in the margin indicate an amendment.
Wording of the H-stater H304 H413	ments in section 2 and 3 May be fatal if swallowed and enters airways. May cause long lasting harmful effects to aquatic life.
Other information:	The classification complies with the current EU lists; however, it has been supplemented with expert literature information and information provided by/about our company. It was derived from the test data and/or the application of the conventional method.
Revision Date:	01.06.2021



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.