Made in Germany

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 30.09.2022 Version number 3.00 (replaces version 2.00) Revision: 30.09.2022

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

1.1 Product identifier
Trade name: HM MOTORENÖL 5W-30 FO SPEZIAL

1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
Application of the substance / the mixture Lubricant

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:
HM Mineralölhandelsgesellschaft mbH
Lange Straße 100-106
27318 Hoya
Tel. +49 (4251) 81251
products@hm-mineraloel.de
www.hm-mineraloel.de

Further information obtainable from: product management

1.4 Emergency telephone number: 24-hour emergency contact number : +1 872 5888271 (CSG)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
The product is not classified, according to the CLP regulation.

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008 Void
Hazard pictograms Void
Signal word Void
Hazard statements Void
Additional information:
Contains: C14-16-18 Alkylphenol. May produce an allergic reaction.
Safety data sheet available on request.

2.3 Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 36878-20-3 EINECS: 253-249-4 Reg.nr.: 01-2119488911-28	Bis(nonylphenyl)amine Aquatic Chronic 4, H413	1-2.49%
CAS: 93819-94-4 EINECS: 298-577-9 Reg.nr.: 01-2119543726-33	Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate) Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Irrit. 2, H315 Specific concentration limits: Skin Irrit. 2; H315: C ≥ 6.25 % Eye Dam. 1; H318: C ≥ 12.5 % Eye Irrit. 2; H319: 10 % ≤ C < 12.5 %	1-2.49%
EC number: 931-468-2 Reg.nr.: 01-2119498288-19	C14-16-18 Alkylphenol STOT RE 2, H373; Skin Sens. 1, H317	1-2.49%

Additional information:
The mineral oils in the product contain < 3% DMSO extract (IP 346).
For the wording of the listed hazard phrases refer to section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures
After inhalation: Supply fresh air; consult doctor in case of complaints.
After skin contact: Wash with soap and water.
After eye contact: In case of eye contact, immediately rinse with clean water for 10-15 minutes.
After swallowing:
Do not induce vorniting.
Rinse mouth thoroughly
Call a doctor immediately.
4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.
4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents:
Water fog. Foam. Powder. Dry chemical product.
Use fire extinguishing methods suitable to surrounding conditions.
For safety reasons unsuitable extinguishing agents: Water with full jet
5.2 Special hazards arising from the substance or mixture No further relevant information available.
5.3 Advice for firefighters
Precautionary measures fire: Exercise caution when fighting any chemical fire.
Firefighting instructions: Use water spray or fog for cooling exposed containers.
Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.
Protective equipment: No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear suitable protective clothing and gloves.
6.2 Environmental precautions:
Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.
6.3 Methods and material for containment and cleaning up:
For containment: Impound and recover large spill by mixing it with inert granular solids.
Methods for cleaning up: Detergent. Take up liquid spill into absorbent material sand, saw dust, kieselguhr.
Other information: Spill area may be slippery. Use suitable disposal containers.
6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Precautions for safe handling: Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required.
Handling temperature: < 40 °C
Hygiene measures: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Information about fire - and explosion protection: No special measures required.

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7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles:
Keep container tightly closed in a dry, cool and well-ventilated place.
Storage temperature: ≤ 40 °C
Information about storage in one common storage facility: Not required.
Further information about storage conditions: Keep in a cool, well-ventilated place.
Storage class: -
7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information: The safety data sheet of the pre-supplier served as the basis for the creation.

8.2 Exposure controls
Appropriate engineering controls No further data; see item 7.
Individual protection measures, such as personal protective equipment
General protective and hygienic measures: Wash hands before breaks and at the end of work.
Respiratory protection:
No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.
Hand protection

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves
Nitrile rubber, NBR
Recommended thickness:> 0.35 mm.
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Penetration time of glove material
Permeation: 6 (> 480 minutes)
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye/face protection

Tightly sealed goggles

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information	
Physical state	Fluid
Colour:	Brown
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling range	Undetermined.
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	218 °C (ASTM D92)
Decomposition temperature:	Not determined.
pH	Mixture is non-soluble (in water).
Viscosity:	
Kinematic viscosity at 40 °C	50 mm²/s
Kinematic at 40°C	
Dynamic:	Not determined.
Solubility	
water:	Slightly soluble, the product remains on the water surface.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 15 °C:	0.852 g/cm³
Relative density	Not determined.
Vapour density	Not determined.

9.2 Other information

Appearance:	
Form:	Fluid
Important information on protection of health and environment, and on safety.	
Auto-ignition temperature:	Not determined.
Explosive properties:	Not determined.
Change in condition	
Evaporation rate	Not determined.

Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void

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Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.
10.2 Chemical stability
Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
10.3 Possibility of hazardous reactions No dangerous reactions known.
10.4 Conditions to avoid No further relevant information available.
10.5 Incompatible materials: Strong oxidizers. acids. Bases.
10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:		
CAS: 36878-20-3 Bis(nonylphenyl)amine		
Oral	LD50 oral	>5,000 mg/kg (rat) (OECD Guideline 401)
Dermal	LD50 dermal	>2,000 mg/kg (rat) (OECD Guideline 402)
CAS: 93819-94-4 Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate)		
Oral	LD50 oral	2,600 mg/kg (rat) (67/548/EEG annex V) body weight
Dermal	LD50 dermal	>3,160 mg/kg (rabbit) (OECD Guideline 402) body weight
Inhalative	LC50 Acute inhalation toxicity (dust/mist):	>2 mg/l /1h (rat) (OECD 403 - read across)

Skin corrosion/irritation Based on available data, the classification criteria are not met.
Serious eye damage/irritation Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation
Not classified. (The ingredient "C14-16-18 Alkyl Phenol" is an impurity of a substance present in the product. Based on tests performed on this substance, the skin sensitizer classification of the impurity "C14-16-18 Alkyl Phenol" is overruled.)
Germ cell mutagenicity Based on available data, the classification criteria are not met.
Carcinogenicity Based on available data, the classification criteria are not met.
Reproductive toxicity Based on available data, the classification criteria are not met.
STOT-single exposure Based on available data, the classification criteria are not met.
STOT-repeated exposure Based on available data, the classification criteria are not met.
Aspiration hazard Based on available data, the classification criteria are not met.
11.2 Information on other hazards

Endocrine disrupting properties
None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity:
Hazardous to the aquatic environment, short-term (acute): Not rated
Hazardous to the aquatic environment, long-term (chronic): Not rated

CAS: 36878-20-3 Bis(nonylphenyl)amine	
EC50	>100 mg/L (Daphnia magna) (OECD 202)

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	>100 mg/L (Desmodesdus subspicatus) (OECD 201)
LC50	>100 mg/L /(96h) (Danio rerio) (OECD 203)
CAS: 93819-94-4 Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate)	
EC50	5.4 mg/L /(48h) (Daphnia magna) (OECD 202)
	2.1 mg/L /(48h) (Selenastrum capricornutum) (OECD 201)
LC50	4.5 mg/L /(96h) (Oncorhynchus mykiss) (OECD 203)

12.2 Persistence and degradability

CAS: 36878-20-3 Bis(nonylphenyl)amine	
Biological degradation	1 % /(28d)
Persistence and degradability	Not readily biodegradable.
CAS: 93819-94-4 Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate)	
Biological degradation	1.5 % /(28d) (OECD 301B)

12.3 Bioaccumulative potential

CAS: 36878-20-3 Bis(nonylphenyl)amine	
Bioaccumulative potential	Bioaccumulation possible.
Partition coefficient n-octanol/water	>7.6
CAS: 93819-94-4 Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate)	
Partition coefficient n-octanol/water	0.9 /(23°C)

12.4 Mobility in soil

CAS: 36878-20-3 Bis(nonylphenyl)amine	
Ecology - soil	Adsorbed to the soil.
CAS: 93819-94-4 Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate)	
Ecology - soil	Adsorbed to the soil.

12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

12.6 Endocrine disrupting properties
The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects
Additional ecological information:
General notes:
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation Dispose of waste according to applicable legislation.

Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number or ID number
ADR, IMDG, IATA not regulated

14.2 UN proper shipping name
ADR, IMDG, IATA not regulated

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14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA	
Class	not regulated
14.4 Packing group	
ADR, IMDG, IATA	not regulated
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
UN "Model Regulation":	not regulated

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Labelling according to Regulation (EC) No 1272/2008 Void
Hazard pictograms Void
Signal word Void
Hazard statements Void

Directive 2012/18/EU
Named dangerous substances - ANNEX I None of the ingredients is listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
None of the ingredients is listed.

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS
None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors
None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
None of the ingredients is listed.

National regulations:

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

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H413 May cause long lasting harmful effects to aquatic life.

Department issuing SDS: product management
Version number of previous version: 2.00
Abbreviations and acronyms:
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4
Sources The safety data sheet of the pre-supplier served as the basis for the creation.