



To Our Customers:

The attached Safety Data Sheet (SDS) was prepared by the vendor of the product you purchased through one of our divisions. We used the manufacturer's electronic document directly or scanned a paper copy and generated a file for our automated SDS delivery system.

All statements, technical information, and recommendations contained therein are solely that of the manufacturer of the product. We at Zep Inc. did not verify the accuracy and completeness of the statements and do not warrant or guarantee the information. We provide vendor SDSs to assist our customers in their compliance efforts. The attached document is in compliance with one of the respective country regulatory requirements noted below:

The OSHA Hazard Communication Standard (in the United States)
The Hazardous Products Regulations (in Canada)

We made every effort to deliver all of the information prepared by the manufacturer. We cannot anticipate all conditions under which this information will be used. If you have any questions about the statements on the SDS, please contact the company shown on the document.

Zep Inc. assumes no liability or responsibility for loss or damage resulting from the improper use or handling of this product, from incompatible product combinations, or from the failure to follow instructions, warnings, and advisories in the manufacturer's product label and Safety Data Sheet.

Sincerely,

Product Stewardship Team
Zep Inc.



A 000 989 63 08 11 AAEW

Mercedes-Benz Genuine Engine Oil SAE 5W-40 MB 229.5

Print date 04.03.2023

Revision date 01.03.2023

Version 1.1 (en)

replaces version of 31.08.2022 (1.0)

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

1.1 Product identifier

Trade name/designation Mercedes-Benz Genuine Engine Oil SAE 5W-40 MB 229.5

MB-Freigabe-Nr 229.5

Product category PC-TEC-11 Lubricants, greases, release agents

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Motor oil

Uses advised against

This product should not be used for other purposes than those specified without the advice of an expert.

1.3 Details of the supplier of the safety data sheet

Supplier

Mercedes-Benz AG

70546 Stuttgart

Germany

+49 (0)711 17-0

Telefon + 49 (0)711 17-97390

Telefax + 49 (0)711 17-94831

E-Mail (fachkundige Person) mercedes-benz-sdb@mercedes-benz.com

Manufacturer

Mercedes-Benz AG

70546 Stuttgart

Germany

Telephone +49 711 17-0

E-mail (competent person):

mercedes-benz-sdb@daimler.com

1.4 Emergency telephone number

+49 711 17-0

gms.aftersales.mercedes-benz.com

Giftnotruf der Charité – Universitätsmedizin Berlin +49 (0)30 30686700

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Remark

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2 Label elements



Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Precautionary statements

P102 Keep out of reach of children.

Special rules for supplemental label elements for certain mixtures

EUH208 Contains a complex of molybdenum polysulphide long-chain alkyl dithiocarbamide, C14-16-18 alkyl phenol. Can cause allergic reactions.

EUH210 Safety data sheet available on request.

2.3 Other hazards

Other adverse effects

Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition / information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Description

Severely refined mineral and/or synthetic oils, additives.

Hazardous ingredients

CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
64742-54-7	265-157-1	Distillates (petroleum), hydrotreated heavy paraffinic	50 < 70 %	Asp. Tox. 1; H304	ATE(oral): ≥ 5001 mg/kg ATE(dermal): ≥ 3001 mg/kg ATE(inhalation vapour): 5.53 mg/L
64742-65-0	265-169-7	Distillates (petroleum), solvent-dewaxed heavy paraffinic	1 < 1.5 %	Asp. Tox. 1; H304	
36878-20-3	253-249-4	bis(nonylphenyl)amine	1 < 1.5 %	Aquatic Chronic 4; H413	ATE(oral): 5001 mg/kg ATE(dermal): 2001 mg/kg
64742-56-9	265-159-2	Distillates (petroleum), solvent-dewaxed, light paraffinic	1 < 1.5 %	Asp. Tox. 1; H304	ATE(oral): > 5000 mg/kg ATE(dermal): > 5000 mg/kg ATE(inhalation vapour): 5 mg/L
1190625-94-5	931-468-2	C14-16-18 alkyl phenol	1 < 1.5 %	Skin Sens. 1B ; H317 STOT RE 2 ; H373	

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CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
28629-66-5	249-109-7	zinc bis(O,O-diisooctyl) bis(dithiophosphate)	1 < 1.5 %	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 2; H411	Eye Dam. 1; H318: > 15 % Eye Irrit. 2; H319: >= 10 -<= 15 %
64742-70-7	265-174-4	Paraffin oils (petroleum), catalytic dewaxed heavy	1 < 1.5 %	Asp. Tox. 1; H304	
	457-320-2	molybdenum polysulphide long chain alkyl dithiocarbamate complex	0.1 < 0.25 %	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 3; H412	

REACH No.	Substance name
01-2119484627-25	Distillates (petroleum), hydrotreated heavy paraffinic
01-2119471299-27	Distillates (petroleum), solvent-dewaxed heavy paraffinic
01-2119488911-28	bis(nonylphenyl)amine
01-2119480132-48	Distillates (petroleum), solvent-dewaxed, light paraffinic
01-2119498288-19	C14-16-18 alkyl phenol
01-2119953278-28	zinc bis(O,O-diisooctyl) bis(dithiophosphate)
01-2119487080-42	Paraffin oils (petroleum), catalytic dewaxed heavy
01-0000019337-66	molybdenum polysulphide long chain alkyl dithiocarbamate complex

Remark

The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346.

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

Remove contaminated, saturated clothing immediately.

Following inhalation

Provide fresh air.

In the event of symptoms refer for medical treatment.

Following skin contact

After contact with skin, wash immediately with plenty of water and soap.

In case of skin irritation, consult a physician.

After eye contact

Remove contact lens

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion

Do NOT induce vomiting.

Call a physician immediately.



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4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam

Extinguishing powder

Carbon dioxide (CO₂)

Water spray jet

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire formation of dangerous gases possible.

5.3 Advice for firefighters

Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Co-ordinate fire-fighting measures to the fire surroundings.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Cool endangered containers with water spray and possibly remove them from fire site.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid skin and eye contact.

Use personal protection equipment.

Special danger of slipping by leaking/spilling product.

For emergency responders

Personal protection equipment

Special danger of slipping by leaking/spilling product.

6.2 Environmental precautions

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter into surface water or drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not allow to enter into soil/subsoil.



6.3 Methods and material for containment and cleaning up

For containment

Collect with spongy material (all-purpose gelation agent) and dispose of in compliance with the regulations.

6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Avoid:

generation/formation of aerosols

Provide for appropriate ventilation/aspiration at the work station

Do not heat up to temperatures close to the flash point.

All work processes must always be designed so that the following is as low as possible:

Skin contact

Eye contact

Do not put any product-impregnated cleaning rags into your trouser pockets.

Advices on general occupational hygiene

Thorough skin-cleansing after handling the product.

Apply skin care products after work.

When using do not eat, drink, smoke, sniff.

Keep away from food and drink.

Use protective skin cream before handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container.

Storage class

10 Combustible liquids that cannot be assigned to any of the above storage classes

Materials to avoid

Do not store together with:

Food and feedingstuffs

Further information on storage conditions

Keep container tightly closed and protected against effects of weather in a cool, appropriately aerated area.

Protect against:

Heat

UV-radiation/sunlight

7.3 Specific end use(s)

Recommendation

See section 1.2



SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL worker

CAS No.	Substance name	DNEL value	DNEL type	Remark
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic	5.4 mg/m ³	long-term inhalative (local)	
36878-20-3	bis(nonylphenyl)amine	0.62 mg/kg bw/day	long-term dermal (systemic)	
36878-20-3	bis(nonylphenyl)amine	4.37 mg/kg	long-term inhalative (systemic)	
64742-65-0	Distillates (petroleum), solvent-dewaxed heavy paraffinic	5.4 mg/m ³	long-term inhalative (systemic)	

DNEL Consumer

CAS No.	Substance name	DNEL value	DNEL type	Remark
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic	1.2 mg/m ³	long-term inhalative (local)	
36878-20-3	bis(nonylphenyl)amine	0.31 mg/kg bw/day	long-term dermal (systemic)	
36878-20-3	bis(nonylphenyl)amine	1.09 mg/kg	long-term inhalative (systemic)	
36878-20-3	bis(nonylphenyl)amine	0.31 mg/kg	long-term oral (repeated)	
64742-65-0	Distillates (petroleum), solvent-dewaxed heavy paraffinic	1.2 mg/m ³	long-term inhalative (systemic)	

PNEC

CAS No.	Substance name	PNEC Value	PNEC type	Remark
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic	9.33 mg/kg	Secondary Poisoning	, Nahrung
36878-20-3	bis(nonylphenyl)amine	0.1 mg/L	aquatic, freshwater	
36878-20-3	bis(nonylphenyl)amine	0.01 mg/L	aquatic, marine water	
36878-20-3	bis(nonylphenyl)amine	132000 mg/kg	sediment, freshwater	
36878-20-3	bis(nonylphenyl)amine	13200 mg/kg	sediment, marine water	
36878-20-3	bis(nonylphenyl)amine	263000 mg/kg	soil	
64742-65-0	Distillates (petroleum), solvent-dewaxed heavy paraffinic	9.33 mg/kg	Secondary Poisoning	, Nahrung

8.2 Exposure controls

Appropriate engineering controls

Technical measures to prevent exposure

Sufficient ventilation and exhaustion.

Personal protection equipment

Eye/face protection

Safety glasses recommended during transfer
EN 166



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Hand protection

Glove materials data [type, thickness, breakthrough time/duration of use, permeation rate]: Nitrile rubber (protection index 6, >480 min, 0.4 mm)

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374.

Body protection:

Protective clothing

Respiratory protection

Respiratory protection necessary at:

insufficient exhaust

prolonged exposure

Suitable respiratory protection apparatus:

Filtering device (full mask or mouthpiece) with filter:

AX

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state

liquid:

viscous

Colour

dark

amber

Odour

characteristic

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	not determined		
Boiling point or initial boiling point and boiling range	> 300 °C	ASTM D 1120	
flammability	not determined		
Lower and upper explosion limit	not determined		
Flash point	210 °C	ASTM D 93	
Auto-ignition temperature	not determined		
Decomposition temperature	not determined		
pH	in delivery state		not applicable nicht in Wasser löslich
Viscosity	kinematic 80 cSt (40°C)	ASTM D445	
Solubility(ies)	Water solubility		practically insoluble



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	Value	Method	Source, Remark
Partition coefficient n-octanol/water (log value)	not determined		
Vapour pressure	not determined		
Density and/or relative density	0.851 g/cm ³ (15°C)	ASTM D 4052	
Relative vapour density	not determined		
particle characteristics	not determined		

9.2 Other information

Other safety characteristics

Value	Method	Source, Remark
Explosive properties:		The product is not explosive

Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous reactions known.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

Heat
High temperatures

10.5 Incompatible materials

Oxidising agent, strong
Strong acids
Strong bases

10.6 Hazardous decomposition products

Carbon monoxide
Carbon dioxide
Phosphorus compounds
Hydrogen sulfide (H₂S)
Nitrogen oxides (NO_x)

Additional information

No risk of production of decomposition products when appropriately handled and stored



! SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Animal data

	Effective dose	Method, Evaluation	Source, Remark
Acute oral toxicity	CAS No. 64742-56-9 Distillates (petroleum), solvent-dewaxed, light paraffinic LD50: > 5000 mg/kg Species Rat		
	CAS No. 36878-20-3 bis(nonylphenyl)amine LD50: 5001 mg/kg Species Rat	OECD 423	
	CAS No. 64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic LD50: ≥ 5001 mg/kg Species Rat	OECD 423	
Acute dermal toxicity	CAS No. 64742-56-9 Distillates (petroleum), solvent-dewaxed, light paraffinic LD50: > 5000 mg/kg Species Rabbit		
	CAS No. 36878-20-3 bis(nonylphenyl)amine LD50: 2001 mg/kg Species Rat	OECD 402	
	CAS No. 64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic LD50: ≥ 3001 mg/kg Species Rabbit	OECD 402	
Acute inhalation toxicity	CAS No. 64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic Acute inhalation toxicity (vapour) LC50: 5.53 mg/L Species Rat		
	CAS No. 64742-56-9 Distillates (petroleum), solvent-dewaxed, light paraffinic Acute inhalation toxicity (vapour) LC50: 5 mg/L Species Rat Exposure time 4 h		



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Assessment/classification

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

Skin corrosion/irritation

Practical experience/human evidence

Repeated or prolonged contact with the skin may cause skin irritation.

Animal data

Result / Evaluation	Method	Source, Remark
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Assessment/classification

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

Serious eye damage/irritation

Animal data

Result / Evaluation	Method	Source, Remark
CAS No.28629-66-5 zinc bis(O,O-diisooctyl) bis(dithiophosphate) Specific Concentration Limit (SCL) Eye Dam. 1; H318: 15 ≤ C ≤ 100%, Eye Irrit. 2; H319: 10 ≤ C ≤ 15%	OECD 405	CAS No.28629-66-5 zinc bis(O,O-diisooctyl) bis(dithiophosphate)

Assessment/classification

Bridging principle "Dilution".

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

Sensitisation to the respiratory tract

Assessment/classification

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

Skin sensitisation

Animal data

Result / Evaluation	Dose / Concentration	Method	Source, Remark
not sensitising.		OECD 406	

Assessment/classification

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

Available trial data have shown that the concentration of potentially sensitizing constituents in this product does not cause skin sensitization.

Germ cell mutagenicity

Assessment/classification

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

Carcinogenicity

Assessment/classification

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



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Reproductive toxicity

Assessment/classification

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

! Overall Assessment on CMR properties

The classification criteria have not been met according to the available data.

This product does not meet the criteria for classification in Categories 1A/1B.

STOT-single exposure

STOT SE 1 and 2

Assessment/classification

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

STOT SE 3

Irritation to respiratory tract

Assessment/classification

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

Narcotic effects

Assessment/classification

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

STOT-repeated exposure

Assessment/classification

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

Aspiration hazard

Assessment/classification

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

11.2 Information on other hazards

Symptoms related to the physical, chemical and toxicological characteristics

	Effective dose	Method,Evaluation	Source, Remark
Endocrine disrupting properties			Der Stoff/dieses Gemisch enthält keine Bestandteile, die gemäß REACH Artikel 57(f) oder der delegierten Verordnung (EU) 2017/2100 der Kommission oder der delegierten Verordnung (EU) 2018/605 der Kommission in Mengen von 0,1 % oder mehr endokrinschädliche Eigenschaften aufweisen.

Other information

Risk of eye and respiratory tract irritation due to high temperatures of vapours and oil mist

In case of swallowing, irritations of the gastric mucous membrane, nausea, vomiting and diarrhoea may occur.

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SECTION 12: Ecological information**12.1 Toxicity****Aquatic toxicity**

	Effective dose	Method,Evaluation	Source, Remark
Acute (short-term) fish toxicity	CAS No.64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic LL50 > 100 mg/L Species Pimephales promelas (fathead minnow) Test duration 96 h	OECD 203	
	CAS No.36878-20-3 bis(nonylphenyl)amine LC50: 101 mg/L Test duration 96 h	OECD 203	
	CAS No.64742-56-9 Distillates (petroleum), solvent-dewaxed, light paraffinic LC50: > 101 mg/L Test duration 96 h		
Chronic (long-term) fish toxicity	CAS No.64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic NOEC 1000 mg/L Species Oncorhynchus mykiss (Rainbow trout) Test duration 14 d		
Acute (short-term) toxicity to crustacea	CAS No.36878-20-3 bis(nonylphenyl)amine EC50 101 mg/L Species Daphnia pulex (water flea) Test duration 48 h	OECD 202	
	CAS No.64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic EC50 > 10000 mg/L Species Daphnia pulex (water flea) Test duration 48 h	OECD 202	
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	CAS No.36878-20-3 bis(nonylphenyl)amine EC50 101 mg/L Species Pseudokirchneriella subcapitata (green alga) Test duration 72 h	OECD 201	



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	Effective dose	Method,Evaluation	Source, Remark
	CAS No.64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic EC50 > 100 mg/L Species Pseudokirchneriella subcapitata (green alga) Test duration 72 h		
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

Assessment/classification

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

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

	Effective dose	Method,Evaluation	Source, Remark
Endocrine disrupting properties			Der Stoff/dieses Gemisch enthält keine Bestandteile, die gemäß REACH Artikel 57(f) oder der delegierten Verordnung (EU) 2017/2100 der Kommission oder der delegierten Verordnung (EU) 2018/605 der Kommission in Mengen von 0,1 % oder mehr endokrinschädliche Eigenschaften aufweisen.

12.7 Other adverse effects

Additional ecotoxicological information

Additional information

Product is not allowed to be discharged into the ground water or aquatic environment.



SECTION 13: Disposal considerations

13.1 Waste treatment methods

Appropriate disposal / Product

Dispose of waste according to applicable legislation.

Appropriate disposal / Package

Dispose of waste according to applicable legislation.

Remark

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	-	-	-
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No	No	No
14.6 Special precautions for user	No data available		
14.7 Maritime transport in bulk according to IMO instruments	not applicable Das Produkt ist nicht zur Beförderung als Massengut vorgesehen.		

All transport carriers

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

SECTION 15: Regulatory information

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

Other regulations (EU)

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC

not applicable

15.2 Chemical Safety Assessment

National regulations

Substance safety analysis was not performed for this mixture.

SECTION 16: Other information

Indication of changes

Current safety data sheets are available at:

<https://gms.aftersales.mercedes-benz.com>



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Abbreviations and acronyms

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Key literature references and sources for data

Safety data sheets of suppliers

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The mixture is classified according to the available hazard data for the constituents as defined in the classification criteria for mixtures for each hazard class in Appendix I of Regulation (EC) No 1272/2008.

Einstufungsverfahren:

Berechnung

Prüfdaten

Additional information

Adhere to existing national and local rules referring to chemicals.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Relevant H- and EUH-phrases (Number and full text)

H304	May be fatal if swallowed and enters airways.
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.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.