

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 19 Apr 2024

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Version: 4



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Mabanol Xenon Alpha FO Eco 5W-20

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

1.1. Product identifier

Trade name/designation:

Mabanol Xenon Alpha FO Eco 5W-20

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

Use of the substance/mixture:

Motor oil

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Mabanol GmbH & Co. KG

Koreastraße 7
20457 Hamburg
Germany

Telephone: 0049 (0) 40 36809988

E-mail: info@mabanol.com

Website: www.mabanol.com

E-mail (competent person): giznord@giz-nord.de

1.4. Emergency telephone number

Giftinformationszentrale Göttingen , 24h: 0049 (0) 551 1 92 40

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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]

Hazard components for labelling:

maleic anhydride; Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic; mineral oil

Hazard statements: none

Supplemental hazard information

EUH208	Contains maleic anhydride. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Precautionary statements: none

Additional information:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. This mixture contains no substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

* 3.2. Mixtures

Additional information:

The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

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Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 64742-54-7 EC No.: 265-157-1 REACH No.: 01-2119484627-25	Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic Asp. Tox. 1 (H304) ⚠ Danger	60 - < 65 weight-%
	mineral oil Asp. Tox. 1 (H304) ⚠ Danger Additional information: The mineral oil contained can be described by one or more of the following numbers: CAS No.: 64742-54-7, 64742-65-0, 64742-55-8, 64742-56-9. EC No.: 265-157-1, 265-169-7, 265-158-7, 265-159-2. REACH No.: 01-2119484627-25, 01-2119471299-27, 01-2119487077-29, 01-2119480132-48.	5 - < 7 weight-%
	Calcium branched alkyl phenate sulphide (overbased) Aquatic Chronic 4 (H413)	1 - < 3 weight-%
CAS No.: 108-31-6 EC No.: 203-571-6 Index No.: 607-096-00-9 REACH No.: 01-2119472428-31	maleic anhydride Acute Tox. 4 (H302), Eye Dam. 1 (H318), Resp. Sens. 1 (H334), STOT RE 1 (H372), Skin Corr. 1B (H314), Skin Sens. 1A (H317) ⚠ ⚠ ⚠ Danger EUH071 Specific concentration limit (SCL) Skin Sens. 1A; H317: C ≥ 0.001%	< 0.001 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Following inhalation:

Remove person to fresh air and keep comfortable for breathing. When in doubt or if symptoms are observed, get medical advice.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. In case of skin irritation, consult a physician.

After eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

Following ingestion:

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if symptoms are observed, get medical advice. Rinse mouth. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Observe risk of aspiration if vomiting occurs.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Foam. Extinguishing powder. Sand. Carbon dioxide (CO₂).

In case of major fire and large quantities: Water spray jet. Water mist.

Unsuitable extinguishing media:

Full water jet.

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5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

Hazardous combustion products:

In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO₂). Sulphur dioxide (SO₂). Nitrogen oxides (NO_x).

5.3. Advice for firefighters

Do not inhale explosion and combustion gases. Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Use personal protection equipment. Ventilate affected area. Special danger of slipping by leaking/spilling product.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

For cleaning up:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8). Avoid: Generation/formation of mist. generation/formation of aerosols.

Fire prevent measures:

Usual measures for fire prevention. Keep away from sources of ignition - No smoking.

Fire class: B (Fires of liquids or liquid turning substances).

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin. Wash hands before breaks and after work. Apply skin care products after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Used working clothes should not be worn outside the work area. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place. Only use containers specifically approved for the substance/product.

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Hints on storage assembly:

Do not store together with: Gas. Explosives. P8 OXIDISING LIQUIDS AND SOLIDS. Radioactive substances. Infectious substances.

Storage class (TRGS 510, Germany): 10 - Combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions:

Temperature control required. Keep container tightly closed.

Protect against: Air. Light. UV-radiation/sunlight.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE) from 1 May 2018	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.02 ppm (0.081 mg/m ³) ② 0.02 ppm (0.081 mg/m ³) ③ 0.05 ppm (0.203 mg/m ³) ⑤ (Aerosol und Dampf) DFG, Sah, Y, 11
DFG (DE) from 1 Jul 2019	maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	① 0.02 ppm (0.081 mg/m ³) ② 0.02 ppm (0.081 mg/m ³) ③ 0.05 ppm (0.2 mg/m ³) ⑤ (Aerosol und Dampf) Sah

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic CAS No.: 64742-54-7 EC No.: 265-157-1	2.73 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic CAS No.: 64742-54-7 EC No.: 265-157-1	5.58 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic CAS No.: 64742-54-7 EC No.: 265-157-1	1.19 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects
Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic CAS No.: 64742-54-7 EC No.: 265-157-1	0.97 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic CAS No.: 64742-54-7 EC No.: 265-157-1	0.74 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	0.081 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	0.2 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	0.081 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	0.2 mg/m ³	① DNEL worker ② Acute - inhalation, local effects

Substance name	PNEC Value	① PNEC type
Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic CAS No.: 64742-54-7 EC No.: 265-157-1	9.33 mg/kg	① PNEC secondary poisoning
maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	0.038 mg/L	① PNEC aquatic, freshwater
maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	0.004 mg/L	① PNEC aquatic, marine water
maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	44.6 mg/L	① PNEC sewage treatment plant
maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	0.296 mg/kg	① PNEC sediment, freshwater
maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	0.03 mg/kg	① PNEC sediment, marine water
maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6	0.037 mg/kg	① PNEC soil

* 8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate ventilation.

8.2.2. Personal protection equipment



Eye/face protection:

Safety goggles with side protection. In case of increased risk add protective face shield. DIN EN 166.

Skin protection:

Tested protective gloves must be worn (EN ISO 374).

Suitable material: NBR (Nitrile rubber). CR (polychloroprene, chloroprene rubber). FKM (fluoro rubber).

Breakthrough times and swelling properties of the material must be taken into consideration. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place

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concentration and quantity of hazardous substances. 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.

Suitable protective clothing: flame-resistant.

Respiratory protection:

Usually no personal respirative protection necessary.

Respiratory protection necessary at: exceeding exposure limit values. aerosol or mist formation. Suitable respiratory protection apparatus: Filtering device (full mask or mouthpiece) with filter: A2, A2/P2, ABEK.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

8.2.3. Environmental exposure controls

No information available.

8.3. Additional information

Air limit values:

Possibility of exposure to Aerosol (Mineral oil)

Limit value (TLV-TWA) = 5 mg/ m³ - Source: ACGIH

Limit value (TLV-STEL) = 10 mg/ m³ - Source: ACGIH

SECTION 9: Physical and chemical properties

* 9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: clear

Odour: not determined

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	No data available		
Melting point	No data available		
Freezing point	No data available		
Initial boiling point and boiling range	No data available		
Flash point	230 °C		① EN ISO 2592
Evaporation rate	No data available		
Auto-ignition temperature	No data available		
Upper/lower flammability or explosive limits	No data available		
Vapour pressure	< 0.1 hPa	20 °C	② calculated.
Vapour density	No data available		
Density	0.851 g/cm ³	15 °C	① DIN 51757
Bulk density	not applicable		
Water solubility	Immiscible		
Dynamic viscosity	No data available		
Kinematic viscosity	40.7 mm ² /s	40 °C	① EN ISO 3104
Pour point	-36 °C		① ISO 3016

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

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10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Oxidising agent, strong.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

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

Toxicological information

Acute Toxicity Estimate for Mixtures

ATE (oral): >2,000 mg/kg

ATE (dermal): >2,000 mg/kg

ATE (inhalation, vapour): >20 mg/L

ATE (inhalation, dust/mist): >5 mg/L

maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6

LD₅₀ oral: 1,090 mg/kg (Rat) OECD 401

LD₅₀ dermal: 2,620 mg/kg (Rabbit)

Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic CAS No.: 64742-54-7
EC No.: 265-157-1

LD₅₀ oral: >5,000 mg/kg (Rat) OECD 401

LD₅₀ dermal: >2,000 mg/kg (Rabbit) OECD 402

LC₅₀ Acute inhalation toxicity (dust/mist): 5.53 mg/L 4 h (Rat) OECD 403

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

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:

Contains maleic anhydride. May produce an allergic reaction.
May cause sensitisation especially in sensitive humans.

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.

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Aspiration hazard:

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

Additional information:

Frequently or prolonged contact with skin may cause dermal irritation.

* 11.2. Information on other hazards

Endocrine disrupting properties:

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 12: Ecological information

12.1. Toxicity

maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6
EC₅₀ : 42.81 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202
ErC₅₀ : 74.35 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201
Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic CAS No.: 64742-54-7 EC No.: 265-157-1
LC₅₀ : 100 mg/L 4 d (fish)
LC₅₀ : 10,000 mg/L 4 d (crustaceans)
EC₅₀ : 10,000 mg/L 2 d (crustaceans)
NOEC : 100 mg/L 4 d (fish)
NOEC : 100 mg/L 3 d (Algae/water plant)

Additional ecotoxicological information:

If this product contains phenol, dodecyl, branched (EC No. 310-154-3), this product is not to be classified as dangerous for the environment. (H410, H411, H412) Raw materials containing this substance have not been classified by our suppliers as hazardous to the environment on the basis of test data, expert judgement or analogy assessments. (H410, H411)

12.2. Persistence and degradability

maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6
Biodegradation: —
Remark: Readily biodegradable (according to OECD criteria).
Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic CAS No.: 64742-54-7 EC No.: 265-157-1
Biodegradation: —
Remark: Not readily biodegradable (according to OECD criteria).

Additional information:

The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

* 12.3. Bioaccumulative potential

maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6
Log K_{ow} : -2.61

Accumulation / Evaluation:

No indication of bioaccumulation potential.

12.4. Mobility in soil

No information available.

* 12.5. Results of PBT and vPvB assessment

maleic anhydride CAS No.: 108-31-6 EC No.: 203-571-6
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Baseoil - unspecified, Distillates (petroleum), hydrotreated heavy paraffinic CAS No.: 64742-54-7 EC No.: 265-157-1
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

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Calcium branched alkyl phenate sulphide (overbased)

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

mineral oil

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
The above statement applies to the substances contained in the product from 0.1%.

* 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The above statement applies to the substances contained in the product from 0.1%.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code packaging

15 01 10 *	packaging containing residues of or contaminated by dangerous substances
------------	--

*: Evidence for disposal must be provided.

Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments

not relevant.

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SECTION 15: Regulatory information

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

15.1.1. EU legislation

Restrictions on use:

Use restriction according to REACH annex XVII, no.: 75.

Other regulations (EU):

This product is not assigned to a hazard category.

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]: No information available.

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds: No information available.

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: Not subject to the SEVESO III directive.

Observe in addition any national regulations!

15.1.2. National regulations

[DE] National regulations

Störfallverordnung (12. BImSchV)

for substances contained in the product:

This product is not assigned to a hazard category.

Remark:

Not subject to StörfallVO.

Technische Anleitung zur Reinhaltung der Luft (TA-Luft)

Klasse 1:

5.2.5: organic substances, to be indicated as total carbon at $m \geq 0.50$ kg/h: conc. 50 mg/m^3 .

Anteil 1:

90 %

Water hazard class

WGK:

2 - obviously hazardous to water

Remark:

Self-classification (mixture; calculation rule).

15.2. Chemical Safety Assessment

not applicable.

15.3. Additional information

Regulation (EU) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals: not relevant.

Water hazard class (WGK): 2 (obviously hazardous to water).

SECTION 16: Other information

* 16.1. Indication of changes

3.2.	Mixtures
8.2.	Exposure controls
9.1.	Information on basic physical and chemical properties
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
11.2.	Information on other hazards
12.3.	Bioaccumulative potential
12.5.	Results of PBT and vPvB assessment
12.6.	Endocrine disrupting properties
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
16.1.	Indication of changes
16.5.	List of relevant hazard statements and/or precautionary statements from sections 2 to 15

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16.2. Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists
ADR: Accord européen sur le transport des marchandises dangereuses par Route (International Carriage of Dangerous Goods by Road)
AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen
CAS Chemical Abstracts Service
DNEL: Derived No Effect Level
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
LOAEL: Lowest observed adverse effect level
LOAEC: Lowest observed adverse effect concentration
LC₅₀: Lethal concentration, 50 percent
LD₅₀: Lethal dose, 50 percent
NIOSH: National Institute of Occupational Safety and Health
NOAEL: No observed adverse effect level
NOAEC: No observed adverse effect level
NTP: National Toxicology Program
N/A: not applicable
OEL: Occupational Exposure limit (Arbeitsplatzgrenzwert)
OSHA: Occupational Safety and Health Administration
PEL: permissible exposure limit (Zulässiger Expositionsgrenzwert)
PBT: persistent bioaccumulative toxic
PNEC: predicted no effect concentration
REL: Recommended exposure limit (Empfohlene Expositionsgrenze)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit (Kurzzeitgrenzwert) (15 min)
SVHC: substance of very high concern
TLV: Threshold Limit Values (Schwellwert Grenzwerte)
TRGS Technische Regeln für Gefahrstoffe
TSCA: Toxic Substances Control Act
TWA: Time Weighted Average (Zeitlich gewichteter Mittelwert) (8 h)
VOC: Volatile Organic Compounds
vPvB: very persistent and very bioaccumulative
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe
WGK: Wassergefährdungsklasse

16.3. Key literature references and sources for data

No data available

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

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

* 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

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Hazard statements

H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H413	May cause long lasting harmful effects to aquatic life.

Supplemental hazard information

EUH071	Corrosive to the respiratory tract.
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16.6. Training advice

No data available

16.7. Additional information

Classification according to Regulation (EC) No 1272/2008 [CLP] - Classification procedure:

health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data.

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.

* Data changed compared with the previous version.