

SAFETY DATA SHEET

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

Revision date: 8 Mar 2023

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Mabanol Xenon Alpha FO 5W-30

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

1.1. Product identifier

Trade name/designation:

Mabanol Xenon Alpha FO 5W-30

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:

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

Supplemental hazard information

EUH210 Safety data sheet available on request.

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-% |
| CAS No.: 36878-20-3 EC No.: 253-249-4 REACH No.: 01-2119488911-28 | bis(nonylphenyl)amine Aquatic Chronic 4 (H413) | 1 - < 3 weight-% |
| | Calcium branched alkyl phenate sulphide (overbased) Aquatic Chronic 4 (H413) | 1 - < 3 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 casualty to fresh air and keep warm and at rest. 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.

* 5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

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Hazardous combustion products:

In case of fire: Gases/vapours, toxic.

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

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 aerosols.

Generation/formation of mist. Do not breathe gas/fumes/vapour/spray.

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

No data available

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 |
|--------------------------------------------------------------------------|----------------------|-----------------------------------------------------------|
| bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4 | 5 mg/kg bw/ day | ① DNEL worker ② Long-term - dermal, systemic effects |
| bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4 | 2.5 mg/kg bw/ day | ① DNEL Consumer ② Long-term - dermal, systemic effects |
| bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4 | 5 mg/kg bw/ day | ① DNEL worker ② Acute - dermal, systemic effects |
| bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4 | 0.25 mg/kg bw/day | ① DNEL Consumer ② Long-term - oral, systemic 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 |
| bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4 | 0.412 mg/L | ① PNEC aquatic, freshwater |
| bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4 | 0.041 mg/L | ① PNEC aquatic, marine water |
| bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4 | 1 mg/L | ① PNEC sewage treatment plant |
| bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4 | 1 mg/kg | ① PNEC sediment, freshwater |
| bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4 | 0.1 mg/kg | ① PNEC sediment, marine water |
| bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4 | 100 mg/kg | ① PNEC soil |

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* 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). FKM (fluoro rubber). CR (polychloroprene, chloroprene 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 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 respiratory 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 | not determined | | |
| Melting point | not determined | | |
| Freezing point | not determined | | |
| Initial boiling point and boiling range | not determined | | |
| Decomposition temperature | not determined | | |
| Flash point | 236 °C | | ① EN ISO 2592 |
| Evaporation rate | not determined | | |
| Auto-ignition temperature | not determined | | |
| Upper/lower flammability or explosive limits | not determined | | |
| Vapour pressure | < 0.1 hPa | 20 °C | ② calculated. |

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| Parameter | Value | at °C | ① Method ② Remark |
|----------------------------------------|-------------------------|-------|----------------------|
| Vapour density | <i>not determined</i> | | |
| Density | 0.854 g/cm ³ | 15 °C | ① DIN 51757 |
| Relative density | <i>not determined</i> | | |
| Bulk density | <i>not determined</i> | | |
| Water solubility | Immiscible | | |
| Partition coefficient: n-octanol/water | <i>not determined</i> | | |
| Dynamic viscosity | <i>not determined</i> | | |
| Kinematic viscosity | 50.8 mm ² /s | 40 °C | ① EN ISO 3104 |
| Pour point | -42 °C | | ① ISO 3016 |

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

* 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

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

bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4

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

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:

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

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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.

Additional information:

Frequently or prolonged contact with skin may cause dermal irritation.

* 11.2. Information on other hazards

Endocrine disrupting properties:

No information available.

SECTION 12: Ecological information

* 12.1. Toxicity

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

| |
|---------------------------------------------|
| LC₅₀: 100 mg/L 4 d (fish) |
|---------------------------------------------|

| |
|----------------------------------|
| NOEC: 100 mg/L 4 d (fish) |
|----------------------------------|

| |
|-------------------------------------------------------|
| EC₅₀: 10,000 mg/L 2 d (crustaceans) |
|-------------------------------------------------------|

| |
|-------------------------------------------------------|
| LC₅₀: 10,000 mg/L 4 d (crustaceans) |
|-------------------------------------------------------|

| |
|-----------------------------------------------|
| NOEC: 100 mg/L 3 d (Algae/water plant) |
|-----------------------------------------------|

| |
|--------------------------------------------------------------------|
| bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4 |
|--------------------------------------------------------------------|

| |
|-----------------------------------------------------------------------|
| LC₅₀: >100 mg/L 4 d (fish, Danio rerio (zebrafish)) |
|-----------------------------------------------------------------------|

| |
|----------------------------------------------------------------------------------------------|
| EC₅₀: >100 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202 |
|----------------------------------------------------------------------------------------------|

| |
|------------------------------------------------------------------------------------------------------|
| ErC₅₀: >100 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201 |
|------------------------------------------------------------------------------------------------------|

| |
|--------------------------------------------------------------------|
| NOEC: 10 mg/L 33 d (fish, Danio rerio (zebrafish)) OECD 210 |
|--------------------------------------------------------------------|

| |
|------------------------------------------------------------------------------------|
| NOEC: 4.45 mg/L 21 d (crustaceans, Daphnia magna (Big water flea)) OECD 211 |
|------------------------------------------------------------------------------------|

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

| |
|-------------------------------------------------------------------------------------------------------------------------------|
| 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). |
|------------------------------------------------------------------------|

| |
|--------------------------------------------------------------------|
| bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4 |
|--------------------------------------------------------------------|

| |
|--------------------------|
| 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.

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* 12.3. Bioaccumulative potential

| |
|-----------------------------------------------------------------------------------|
| bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4 |
| Log K_{OW} : 11.87 |
| Bioconcentration factor (BCF) : 411 Species: Cyprinus carpio (Common Carp) |

Accumulation / Evaluation:

No indication of bioaccumulation potential.

12.4. Mobility in soil

No information available.

* 12.5. Results of PBT and vPvB assessment

| |
|-------------------------------------------------------------------------------------------------------------------------------|
| 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. |
| bis(nonylphenyl)amine CAS No.: 36878-20-3 EC No.: 253-249-4 |
| Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. |
| 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.

* 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.

* 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. |

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| Land transport (ADR/RID) | Inland waterway craft (ADN) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|
| 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.

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):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: 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.

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:

85 %

Water hazard class

WGK:

2 - deutlich wassergefährdend

Remark:

Self-classification (mixture; calculation rule).

Other regulations, restrictions and prohibition regulations

Observe mixture permissions according to "Altölverordnung (Waste oil directive)".

15.2. Chemical Safety Assessment

not applicable.

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* 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 |
| 4.1. | Description of first aid measures |
| 5.2. | Special hazards arising from the substance or mixture |
| 7.1. | Precautions for safe handling |
| 8.1. | Control parameters |
| 8.2. | Exposure controls |
| 9.1. | Information on basic physical and chemical properties |
| 10.2. | Chemical stability |
| 11.1. | Information on hazard classes as defined in Regulation (EC) No 1272/2008 |
| 11.2. | Information on other hazards |
| 12.1. | Toxicity |
| 12.2. | Persistence and degradability |
| 12.3. | Bioaccumulative potential |
| 12.5. | Results of PBT and vPvB assessment |
| 12.6. | Endocrine disrupting properties |
| 12.7. | Other adverse effects |
| 15.1. | Safety, health and environmental regulations/legislation specific for the substance or mixture |
| 15.3. | Additional information |
| 16.1. | Indication of changes |
| 16.5. | Relevant R-, H- and EUH-phrases (Number and full text) |

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

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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. Relevant R-, H- and EUH-phrases (Number and full text)

| Hazard statements | |
|-------------------|---------------------------------------------------------|
| H304 | May be fatal if swallowed and enters airways. |
| H413 | May cause long lasting harmful effects to aquatic life. |

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.