

SAFETY DATA SHEET

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

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Mabanol Xenon Alpha Synth 5W-40

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

1.1. Product identifier

Trade name/designation:

Mabanol Xenon Alpha Synth 5W-40

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

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:

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts; Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7); Highly refined mineral oil (C15-C50)*

Supplemental hazard information

EUH208	Contains Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

2.3. Other hazards

Other adverse effects:

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.

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	Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7) Asp. Tox. 1 H304	40 - < 45 Wt %
CAS No.: 64741-88-4	Highly refined mineral oil (C15-C50)* Asp. Tox. 1 H304	12 - < 15 Wt %
CAS No.: 68784-31-6 EC No.: 272-238-5 REACH No.: 01-2119657973-23	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts Aquatic Chronic 2, Eye Dam. 1 H318-H411	1 - < 5 Wt %
CAS No.: 36878-20-3 EC No.: 253-249-4 REACH No.: 01-2119488911-28	bis(nonylphenyl)amine Aquatic Chronic 4 H413	1 - < 5 Wt %
CAS No.: 68784-26-9 EC No.: 272-234-3 REACH No.: 01-2119524004-56	Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased Aquatic Chronic 4 H413	1 - < 5 Wt %

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:

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

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. If eye irritation persists: Get medical advice/attention.

After ingestion:

Do NOT induce vomiting. 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.

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:

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

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

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Unsuitable extinguishing media:

Full water jet.

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). Phosphorus oxides.

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:

Remove persons to safety. 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 (e.g. 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

No information available.

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.

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. Do not breathe gas/fumes/vapour/spray. Wash hands before breaks and after work. Apply skin care products after work. Separate storage of work clothes. Immediately remove any contaminated clothing, shoes or stockings. 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: 10 - Combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions:

Temperature control required. Protect against: UV-radiation/sunlight. Light. Air.

Keep container tightly closed.

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 ③ Exposure time
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7) CAS No.: 64742-54-7	5.4 mg/m ³	① DNEL worker ② inhalative, long-term, local ③ 8 h
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7) CAS No.: 64742-54-7	1.2 mg/m ³	① DNEL Consumer ② inhalative, long-term, local ③ 24 h
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts CAS No.: 68784-31-6	2.93 mg/m ³	① DNEL worker ② inhalative, long-term, systemic
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts CAS No.: 68784-31-6	11.75 mg/m ³	① DNEL Consumer ② inhalative, long-term, systemic
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts CAS No.: 68784-31-6	496.4 mg/m ³	① DNEL worker ② inhalative, short-term, systemic, (acute)
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts CAS No.: 68784-31-6	198.6 mg/m ³	① DNEL Consumer ② inhalative, short-term, systemic, (acute)
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts CAS No.: 68784-31-6	10.42 mg/kg bw/day	① DNEL worker ② dermal, long-term, systemic
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts CAS No.: 68784-31-6	2.1 mg/kg bw/day	① DNEL Consumer ② dermal, long-term, systemic
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts CAS No.: 68784-31-6	100 mg/kg bw/day	① DNEL worker ② Acute - dermal, systemic effects
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts CAS No.: 68784-31-6	50 mg/kg bw/day	① DNEL Consumer ② Acute - dermal, systemic effects
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts CAS No.: 68784-31-6	0.21 mg/kg bw/day	① DNEL Consumer ② oral, long-term, systemic

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Substance name	DNEL value	① DNEL type ② Exposure route ③ Exposure time
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts CAS No.: 68784-31-6	29 mg/kg bw/day	① DNEL Consumer ② Acute - oral, systemic effects
bis(nonylphenyl)amine CAS No.: 36878-20-3	5 mg/kg bw/day	① DNEL worker ② Acute - dermal, systemic effects
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased CAS No.: 68784-26-9	3.5 mg/m ³	① DNEL worker ② inhalative, long-term, systemic
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased CAS No.: 68784-26-9	0.87 mg/m ³	① DNEL Consumer ② inhalative, long-term, systemic
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased CAS No.: 68784-26-9	133.6 mg/m ³	① DNEL worker ② inhalative, short-term, systemic, (acute)
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased CAS No.: 68784-26-9	0.067 mg/m ³	① DNEL Consumer ② inhalative, short-term, systemic, (acute)
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased CAS No.: 68784-26-9	0.5 mg/kg bw/day	① DNEL worker ② dermal, long-term, systemic
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased CAS No.: 68784-26-9	80 mg/kg bw/day	① DNEL worker ② Acute - dermal, systemic effects
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased CAS No.: 68784-26-9	40 mg/kg bw/day	① DNEL Consumer ② Acute - dermal, systemic effects
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased CAS No.: 68784-26-9	0.25 mg/kg bw/day	① DNEL Consumer ② oral, long-term, systemic
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased CAS No.: 68784-26-9	50 mg/kg bw/day	① DNEL Consumer ② Acute - oral, systemic effects

Substance name	PNEC Value	① PNEC type
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7) CAS No.: 64742-54-7	9.33 mg/kg	① PNEC secondary poisoning
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts CAS No.: 68784-31-6	0.04 mg/l	① PNEC aquatic, freshwater
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts CAS No.: 68784-31-6	0.0046 mg/l	① PNEC aquatic, marine water
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts CAS No.: 68784-31-6	3.8 mg/l	① PNEC sewage treatment plant
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts CAS No.: 68784-31-6	0.07 mg/kg	① PNEC sediment, freshwater
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts CAS No.: 68784-31-6	0.007 mg/kg	① PNEC sediment, marine water
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts CAS No.: 68784-31-6	0.055 mg/kg	① PNEC soil

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Substance name	PNEC Value	① PNEC type
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts CAS No.: 68784-31-6	8.33 mg/kg	① PNEC secondary poisoning
bis(nonylphenyl)amine CAS No.: 36878-20-3	0.1 mg/l	① PNEC aquatic, freshwater
bis(nonylphenyl)amine CAS No.: 36878-20-3	0.01 mg/l	① PNEC aquatic, marine water
bis(nonylphenyl)amine CAS No.: 36878-20-3	1 mg/l	① PNEC sewage treatment plant
bis(nonylphenyl)amine CAS No.: 36878-20-3	132,000 mg/kg	① PNEC sediment, freshwater
bis(nonylphenyl)amine CAS No.: 36878-20-3	263,000 mg/kg	① PNEC soil
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased CAS No.: 68784-26-9	0.5 mg/l	① PNEC aquatic, freshwater
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased CAS No.: 68784-26-9	0.04 mg/l	① PNEC aquatic, marine water
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased CAS No.: 68784-26-9	100 mg/l	① PNEC sewage treatment plant
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased CAS No.: 68784-26-9	43,500 mg/kg	① PNEC sediment, freshwater
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased CAS No.: 68784-26-9	3,480 mg/kg	① PNEC sediment, marine water
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased CAS No.: 68784-26-9	8,650 mg/kg	① PNEC soil
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased CAS No.: 68784-26-9	13,333 mg/kg	① PNEC secondary poisoning

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate ventilation.

8.2.2. Personal protection equipment



Eye/face protection:

Eye glasses with side protection (DIN EN 166). Recommendation: Face protection shield.

Skin protection:

Tested protective gloves must be worn (EN ISO 374/DIN EN 388).

Suitable material: NBR (Nitrile rubber). Neoprene. 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 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.

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Respiratory protection:

Usually no personal respiratory protection necessary.

Respiratory protection necessary at: aerosol or mist formation, exceeding exposure limit values. Suitable respiratory protection apparatus: (aerosol or mist formation) 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 data available

* 8.3. Additional information

air limit values:

Possibility of exposure to Aerosols

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		at °C	Method	Remark
pH	<i>not determined</i>			
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature	<i>not determined</i>			
Flash point	236 °C			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	0.8543 g/cm ³	15 °C	DIN 51757	
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	86.92 mm ² /s	40 °C	DIN EN ISO 3104	
Pour point	-42 °C			

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 stable under storage at normal ambient temperatures.

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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 toxicological effects

CAS No.	Substance name	Toxicological information
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	LD₅₀ oral: >5,000 mg/kg (Rat) OECD 420 LD₅₀ dermal: >2,000 mg/kg (Rabbit) OECD 402
68784-31-6	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	LD₅₀ oral: >2,000 mg/kg (Rat) OECD 401 LD₅₀ dermal: >5,000 mg/kg (Rabbit) OECD 402
36878-20-3	bis(nonylphenyl)amine	LD₅₀ oral: >5,000 mg/kg (Rat)
68784-26-9	Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased	LD₅₀ oral: >5,000 mg/kg (Rat) OECD 401 LD₅₀ dermal: >4,000 mg/kg (Rabbit) OECD 402

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.

May cause sensitization by inhalation and skin contact.

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.

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Additional information:

Frequently or prolonged contact with skin may cause dermal irritation.

SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	NOEC: 10 mg/l 21 d (crustaceans, Daphnia magna (Big water flea)) OECD 211
68784-31-6	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	LC₅₀: 4.4 mg/l 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) OECD 203 EC₅₀: 75 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202 ErC₅₀: 410 mg/l 3 d (Algae/water plant, Desmod esmus subspicatus) OECD 201 NOEC: 0.4 mg/l 21 d (crustaceans, Daphnia magna (Big water flea)) OECD 211
36878-20-3	bis(nonylphenyl)amine	LC₅₀: >100 mg/l 4 d (fish, Brachydanio rerio (zebra-fish)) EC₅₀: >100 mg/l 2 d (crustaceans, Daphnia magna (Big water flea))
68784-26-9	Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased	LC₅₀: >1,000 mg/l 4 d (fish, Pimephales promelas (fathead minnow)) OECD 203 ErC₅₀: >500 mg/l 4 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201 EC₅₀: >1,000 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202

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. 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.

12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	—	Not readily biodegradable (according to OECD criteria)
68784-31-6	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	—	Readily biodegradable (according to OECD criteria).
36878-20-3	bis(nonylphenyl)amine	—	Not readily biodegradable (according to OECD criteria)
68784-26-9	Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased	—	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

CAS No.	Substance name	Log K _{OW}	Bioconcentration factor (BCF)
68784-26-9	Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased	9.5	2.2 Species: lipid triolein

Accumulation / Evaluation:

No indication of bioaccumulation potential.

12.4. Mobility in soil

No information available.

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12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
68784-31-6	Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
36878-20-3	bis(nonylphenyl)amine	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
68784-26-9	Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
64741-88-4	Highly refined mineral oil (C15-C50)*	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

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

12.6. 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
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*: 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:

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

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

14.1. UN-No.	not relevant
14.2. UN proper shipping name	not relevant
14.3. Transport hazard class(es)	not relevant
14.4. Packing group	not relevant
14.5. Environmental hazards	not relevant
14.6. Special precautions for user	not relevant

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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
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

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: 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

for substances contained in the product:

This product is not assigned to a hazard category.

Technische Anleitung Luft (TA-Luft)

Klasse 1:

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

Anteil 1:

95 %

Water hazard class (WGK)

WGK:

2 - deutlich wassergefährdend

Remark:

Self-classification (mixture; calculation rule).

15.2. Chemical Safety Assessment

not applicable.

SECTION 16: Other information

16.1. Indication of changes

2.2.	Label elements
3.2.	Mixtures
8.3.	Additional information
9.1.	Information on basic physical and chemical properties

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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]

Classification 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.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

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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