

Safety Data Sheet

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

As retained in UK law by (SI 2019/758 as amended)

Synmar Faustina 80W-90 LSD 2000

Version number: 1.0

Date of compilation: 2025-02-03

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

1.1 Product identifier

Trade name **Synmar Faustina 80W-90 LSD 2000**
 Unique formula identifier (UFI) QA50-50D8-G00W-Q3UF
 Article number S300163

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

Relevant identified uses Lubricants and lubricant additives
 Professional use
 Consumer use

1.3 Details of the supplier of the safety data sheet

Synmar B.V.
 Albert Schweitzerstraat 7
 7131 PG Lichtenvoorde
 Netherlands

Telephone: +31 (0) 33 303 3044
 e-mail: info@synmar.nl
 Website: www.synmar.nl

e-mail (competent person) info@synmar.nl

1.4 Emergency telephone number

Emergency information service +31 (0) 33 303 3044
 This number is only available during the following office hours: Mon-Fri 09:00 - 17:00

| Poison centre | | |
|----------------|---|--|
| Country | Name | Telephone |
| United Kingdom | National Poisons Information Service (NPIS) | 0344-8920111 (medical professionals only) |
| United Kingdom | NHS (general public) | non-emergency: 111 or a doctor; emergency: 999 |

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (acc. to GB CLP)

| Section | Hazard class | Category | Hazard class and category | Hazard statement |
|---------|---|----------|---------------------------|------------------|
| 3.4S | skin sensitisation | 1 | Skin Sens. 1 | H317 |
| 4.1C | hazardous to the aquatic environment - chronic hazard | 2 | Aquatic Chronic 2 | H411 |

For full text of H-phrases: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling (acc. to GB CLP)

- signal word Warning

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- pictograms

GHS07, GHS09



- hazard statements

H317

May cause an allergic skin reaction.

H411

Toxic to aquatic life with long lasting effects.

- precautionary statements

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P261

Avoid breathing dust/fume/gas/mist/vapours/spray.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352

IF ON SKIN: Wash with plenty of water.

P333+P313

If skin irritation or rash occurs: Get medical advice/attention.

P391

Collect spillage.

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

- hazardous ingredients for labelling

Contains: Polysulfides, di-tert-Bu; Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched).

2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.





SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture).

3.2 Mixtures

The product does not contain (other) ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the product and hence require reporting in this section.

| Name of substance | Identifier | Wt% | Classification acc. to GHS | Pictograms | Notes |
|---|--|------------|---|---|-------|
| Polysulfides, di-tert-Bu | CAS No 68937-96-2 EC No 273-103-3 | 1 – 4.99 | Skin Sens. 1B / H317 Aquatic Acute 1 / H400 Aquatic Chronic 3 / H412 |  | |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | EC No 931-384-6 | 0.1 – 0.99 | Acute Tox. 4 / H302 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 Aquatic Chronic 2 / H411 |  | |
| Amines, C16-18-(even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates | EC No 947-129-7 | 0.1 – 0.59 | Eye Irrit. 2 / H319 Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411 |  | |
| C16-18-(even numbered, saturated and unsaturated)-al- | CAS No 1213789-63-9 | 0.1 – 0.25 | Acute Tox. 4 / H302 Skin Corr. 1 / H314 Eye Dam. 1 / H318 |  | |

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| Name of substance | Identifier | Wt% | Classification acc. to GHS | Pictograms | Notes |
|-------------------|--------------------|-----|--|---|-------|
| kylamines | EC No 627-034-4 | | STOT SE 3 / H335 STOT RE 2 / H373 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410 |  | |

| Name of substance | Identifier | Specific Conc. Limits | M-Factors | ATE | Exposure route |
|---|--|--|--|-------------|----------------|
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | EC No 931-384-6 | Eye Irrit. 2; H319: C ≥ 50 % Skin Sens. 1; H317: C ≥ 9.39 % | - | 500 mg/kg | oral |
| Amines, C16-18- (even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates | EC No 947-129-7 | - | M-factor (acute) = 10 | - | |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | CAS No 1213789-63-9 EC No 627-034-4 | - | M-factor (acute) = 10 M-factor (chronic) = 10 | 1,689 mg/kg | oral |

Remarks

All the percentages given are percentages by weight unless stated otherwise. For full text of H-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician.

Following skin contact

Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Following eye contact

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

For specialist advice physicians should contact the poison centre.

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SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media

Water mist; Foam; Dry extinguishing powder;
Co-ordinate firefighting measures to the fire surroundings.

Unsuitable extinguishing media

Water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

During fire hazardous fumes/smoke could be produced: carbon monoxide (CO), carbon dioxide (CO₂).**5.3 Advice for firefighters**

Keep containers cool with water spray. In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters

Self-contained breathing apparatus (SCBA). Standard protective clothing for firefighters.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel

Remove persons to safety. Ventilate affected area. Special danger of slipping by leaking/spilling product.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Use personal protective equipment as required.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Clean with detergents. Wipe up with absorbent material (e.g. cloth, fleece). Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.).

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Recommendations

- measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

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Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

Handling temperature <40 °C

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- flammability hazards

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge.

- incompatible substances or mixtures

Keep away from alkalis, oxidising substances, acids.

Control of effects

Protect against external exposure, such as

High temperatures. UV-radiation/sunlight.

Consideration of other advice

Store in a well-ventilated place. Keep container tightly closed. Store in a dry place. Keep in a cool place.

- specific designs for storage rooms or vessels

- storage temperature

Maximum storage temperature: ≤40 °C

- packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

No information available.

Relevant DNELs/DMELs/PNECs and other threshold levels

| Relevant DNELs of components of the mixture | | | | | | |
|--|------------|-----------|------------------------|------------------------------------|-------------------------------|----------------------------|
| Name of substance | CAS No | End-point | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| Polysulfides, di-tert-Bu | 68937-96-2 | DNEL | 3.29 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Polysulfides, di-tert-Bu | 68937-96-2 | DNEL | 4.67 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Polysulfides, di-tert-Bu | 68937-96-2 | DNEL | 0.58 mg/m ³ | human, inhalatory | consumer (private households) | chronic - systemic effects |
| Polysulfides, di-tert-Bu | 68937-96-2 | DNEL | 1.67 mg/kg bw/day | human, dermal | consumer (private households) | chronic - systemic effects |
| Polysulfides, di-tert-Bu | 68937-96-2 | DNEL | 0.167 mg/kg bw/day | human, oral | consumer (private households) | chronic - systemic effects |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus | | DNEL | 4.28 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |

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| Relevant DNELs of components of the mixture | | | | | | |
|---|--------|-----------|------------------------|------------------------------------|-------------------------------|----------------------------|
| Name of substance | CAS No | End-point | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| oxide, propylene oxide and amines, C12-14-alkyl (branched) | | | | | | |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | DNEL | 12.5 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | DNEL | 160 µg/cm ² | human, dermal | worker (industry) | chronic - local effects |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | DNEL | 160 µg/cm ² | human, dermal | worker (industry) | acute - local effects |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | DNEL | 1.09 mg/m ³ | human, inhalatory | consumer (private households) | chronic - systemic effects |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | DNEL | 6.25 mg/kg bw/day | human, dermal | consumer (private households) | chronic - systemic effects |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | DNEL | 160 µg/cm ² | human, dermal | consumer (private households) | chronic - local effects |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | DNEL | 160 µg/cm ² | human, dermal | consumer (private households) | acute - local effects |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | DNEL | 0.25 mg/kg bw/day | human, oral | consumer (private households) | chronic - systemic effects |
| Amines, C16-18- | | DNEL | 3.72 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic |

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| Relevant DNELs of components of the mixture | | | | | | |
|--|--------------|-----------|-------------------------|------------------------------------|-------------------------------|----------------------------|
| Name of substance | CAS No | End-point | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| (even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates | | | | | | effects |
| Amines, C16-18-(even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates | | DNEL | 1.04 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Amines, C16-18-(even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates | | DNEL | 1.1 mg/m ³ | human, inhalatory | consumer (private households) | chronic - systemic effects |
| Amines, C16-18-(even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates | | DNEL | 0.625 mg/kg bw/day | human, dermal | consumer (private households) | chronic - systemic effects |
| Amines, C16-18-(even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates | | DNEL | 0.625 mg/kg bw/day | human, oral | consumer (private households) | chronic - systemic effects |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9 | DNEL | 0.38 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9 | DNEL | 1 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9 | DNEL | 1 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9 | DNEL | 0.035 mg/m ³ | human, inhalatory | consumer (private households) | chronic - systemic effects |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9 | DNEL | 40 µg/kg | human, oral | consumer (private households) | chronic - systemic effects |

| Relevant PNECs of components | | | | | | |
|---|--------|-----------|-----------------|-------------------|---------------------------|------------------------------|
| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric | | PNEC | 2.4 µg/l | aquatic organisms | freshwater | short-term (single instance) |

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| Relevant PNECs of components | | | | | | |
|---|--------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
| acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | | | | | |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | PNEC | 0.24 µg/l | aquatic organisms | marine water | short-term (single instance) |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | PNEC | 24.33 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | PNEC | 12.9 µg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | PNEC | 1.29 µg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | PNEC | 1.17 µg/kg | terrestrial organisms | soil | short-term (single instance) |
| Amines, C16-18- (even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates | | PNEC | 0 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Amines, C16-18- (even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates | | PNEC | 0 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Amines, C16-18- (even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates | | PNEC | 1 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Amines, C16-18- (even numbered, saturated and unsaturated) alkyl, O,O-di- | | PNEC | 0.001 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |

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| Relevant PNECs of components | | | | | | |
|--|--------------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
| Bu phosphorothioates | | | | | | |
| Amines, C16-18-(even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates | | PNEC | 0 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Amines, C16-18-(even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates | | PNEC | 0 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9 | PNEC | 0.26 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9 | PNEC | 0.026 µg/l | aquatic organisms | marine water | short-term (single instance) |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9 | PNEC | 550 µg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9 | PNEC | 3.76 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9 | PNEC | 0.376 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9 | PNEC | 10 mg/kg | terrestrial organisms | soil | short-term (single instance) |

8.2 Exposure controls

Appropriate engineering controls

General ventilation. Provide eyewash stations and safety showers at the workplace.

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection

Skin protection



Chemical protective clothing.

Hand protection



Wear suitable gloves. Check leak-tightness/impermeability prior to use. 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 selection of the

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suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- type of material

Nitrile rubber

- material thickness

Use gloves with a minimum material thickness: ≥ 0.75 mm.

- breakthrough time of the glove material

Use gloves with a minimum breakthrough time of the glove material: >480 minutes (permeation: level 6).

- other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Type: ABEK-P2 (combined filters against gases, vapours and particles, colour code: Brown/Grey/Yellow/Green/White).

Environmental exposure controls

Take appropriate precautions to avoid uncontrolled release into the environment. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|--|
| Physical state | liquid |
| Colour | brown |
| Odour | characteristic |
| Melting point/freezing point | -11 °C at 1,013 hPa calculated value, referring to a component of the mixture |
| Boiling point or initial boiling point and boiling range | 186 °C at 101.3 kPa calculated value, referring to a component of the mixture |
| Evaporation rate | not determined |
| Flammability | this material is combustible, but will not ignite readily |
| Lower and upper explosion limit | LEL: UEL: not determined |
| Flash point | >200 °C (ASTM D92) |
| Auto-ignition temperature | 225 °C (auto-ignition temperature (liquids and gases)) calculated value, referring to a component of the mixture |
| Decomposition temperature | no data available |
| pH (value) | not determined |
| Kinematic viscosity | 131 mm ² /s at 40 °C (ASTM D 445) |
| Solubility | not determined |
| Partition coefficient n-octanol/water (log value) | this information is not available |

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| | |
|-----------------|---|
| Vapour pressure | 15.6 Pa at 20 °C calculated value, referring to a component of the mixture |
|-----------------|---|

Density and/or relative density

| | |
|-------------------------|---|
| Density | 0.88 g/ml at 15 °C (ASTM D4052) |
| Relative vapour density | information on this property is not available |

| | |
|--------------------------|-----------------------|
| Particle characteristics | not relevant (liquid) |
|--------------------------|-----------------------|

9.2 Other information

| | |
|--|---|
| Information with regard to physical hazard classes | hazard classes acc. to GHS (physical hazards): not relevant |
| Other safety characteristics | there is no additional information |

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidisers.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

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| Acute toxicity estimate (ATE) of components | | | |
|---|--------------|----------------|-------------|
| Name of substance | CAS No | Exposure route | ATE |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | oral | 500 mg/kg |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9 | oral | 1,689 mg/kg |

| Acute toxicity of components | | | | | |
|--|--------------|----------------|----------|--------------|---------|
| Name of substance | CAS No | Exposure route | Endpoint | Value | Species |
| Amines, C16-18-(even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates | | oral | LD50 | >2,000 mg/kg | rat |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9 | oral | LD50 | 1,689 mg/kg | rat |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9 | dermal | LD50 | >2,000 mg/kg | rat |

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

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| Aquatic toxicity (acute) of components of the mixture | | | | | |
|---|--------------|-------------------|-------------|-----------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| Polysulfides, di-tert-Bu | 68937-96-2 | EL50 | 63 mg/l | aquatic invertebrates | 48 h |
| Polysulfides, di-tert-Bu | 68937-96-2 | NOELR | 18 mg/l | aquatic invertebrates | 48 h |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | LL50 | 24 mg/l | fish | 96 h |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | EL50 | 91.4 mg/l | aquatic invertebrates | 48 h |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | EC50 | 6.4 mg/l | algae | 96 h |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | ErC50 | 15 mg/l | algae | 96 h |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | NOELR | 3.2 mg/l | fish | 96 h |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | NOEC | 1.7 mg/l | algae | 96 h |
| Amines, C16-18-(even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates | | LL50 | >0.028 mg/l | fish | 96 h |
| Amines, C16-18-(even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates | | EL50 | 0.071 mg/l | aquatic invertebrates | 48 h |
| Amines, C16-18-(even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates | | NOELR | 0.028 mg/l | fish | 96 h |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9 | LC50 | 0.84 mg/l | fish | 96 h |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9 | EC50 | 0.32 mg/l | aquatic invertebrates | 48 h |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9 | ErC50 | 0.39 mg/l | algae | 72 h |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9 | NOEC | 0.63 mg/l | fish | 96 h |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9 | LOEC | 0.25 mg/l | algae | 72 h |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9 | growth (EbCx) 10% | 0.23 mg/l | aquatic invertebrates | 48 h |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9 | growth rate (Er- | 0.029 mg/l | algae | 72 h |

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| Aquatic toxicity (acute) of components of the mixture | | | | | |
|---|--------|----------|-------|---------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| ated and unsaturated)-alkylamines | 63-9 | Cx) 10% | | | |

| Aquatic toxicity (chronic) of components of the mixture | | | | | |
|---|--------------|-------------------|------------|-----------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | EL50 | 0.91 mg/l | aquatic invertebrates | 21 d |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | EC50 | 2,433 mg/l | microorganisms | 3 h |
| Amines, C16-18-(even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates | | EC50 | >100 mg/l | microorganisms | 3 h |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9 | EC50 | 0.24 mg/l | aquatic invertebrates | 21 d |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9 | NOEC | 0.013 mg/l | aquatic invertebrates | 21 d |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9 | LOEC | 0.032 mg/l | aquatic invertebrates | 21 d |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9 | growth (EbCx) 20% | 0.2 mg/l | aquatic invertebrates | 21 d |

12.2 Persistence and degradability

Not readily biodegradable.

| Degradability of components | | | | | |
|---|--------------|---------------------------|------------------|------|--------|
| Name of substance | CAS No | Process | Degradation rate | Time | Method |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | carbon dioxide generation | 3.6 % | 28 d | |
| Amines, C16-18-(even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates | | carbon dioxide generation | 75 % | 28 d | |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9 | carbon dioxide generation | 18 % | 6 d | |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9 | oxygen depletion | 34 % | 5 d | |

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12.3 Bioaccumulative potential

| Bioaccumulative potential of components | | | | |
|---|--------|-----|---------------------------|----------|
| Name of substance | CAS No | BCF | Log KOW | BOD5/COD |
| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) | | 436 | <0.3 (pH value: 7, 40 °C) | |
| Amines, C16-18-(even numbered, saturated and unsaturated) alkyl, O,O-di-Bu phosphorothioates | | | 4.61 (21.2 °C) | |

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment.

Waste treatment of containers/packages

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number

| | |
|-----------|---------|
| ADR/RID | UN 3082 |
| IMDG-Code | UN 3082 |
| ICAO-TI | UN 3082 |

14.2 UN proper shipping name

| | |
|--|---|
| ADR/RID | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| IMDG-Code | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| ICAO-TI | Environmentally hazardous substance, liquid, n.o.s. |
| Technical name (Hazardous ingredients) | Polysulfides, di-tert-Bu, Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) |

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14.3 Transport hazard class(es)

| | |
|-----------|---|
| ADR/RID | 9 |
| IMDG-Code | 9 |
| ICAO-TI | 9 |

14.4 Packing group

| | |
|-----------|-----|
| ADR/RID | III |
| IMDG-Code | III |
| ICAO-TI | III |

14.5 Environmental hazards

| | |
|---|---|
| | hazardous to the aquatic environment |
| Environmentally hazardous substance (aquatic environment) | Polysulfides, di-tert-Bu, Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) |

14.6 Special precautions for user


Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

No data available.

Additional information for each of the UN Model Regulations

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) - additional information

| | |
|---|--|
| Classification code | M6 |
| Danger label(s) | 9, fish and tree |
|  | |
| Environmental hazards | yes (hazardous to the aquatic environment) |
| Special provisions (SP) | 274, 335, 375, 601, 650 |
| Excepted quantities (EQ) | E1 |
| Limited quantities (LQ) | 5 L |
| Transport category (TC) | 3 |
| Tunnel restriction code (TRC) | - |
| Hazard identification No | 90 |
| Emergency Action Code | 3Z |

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) - additional information

| | |
|---|--------------------------|
| Classification code | M6 |
| Danger label(s) | 9, fish and tree |
|  | |
| Environmental hazards | yes (hazardous to water) |
| Special provisions (SP) | 274, 335, 375, 601, 650 |
| Excepted quantities (EQ) | E1 |

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Limited quantities (LQ) 5 L

Transport category (TC) 3

Hazard identification No 90

International Maritime Dangerous Goods Code (IMDG) - additional information

Marine pollutant yes (hazardous to the aquatic environment) (Polysulfides, di-tert-Bu)

Danger label(s) 9, fish and tree



Special provisions (SP) 274, 335, 375, 969

Excepted quantities (EQ) E1

Limited quantities (LQ) 5 L

EmS F-A, S-F

Stowage category A

International Civil Aviation Organization (ICAO-IATA/DGR) - additional information

Environmental hazards yes (hazardous to the aquatic environment)

Danger label(s) 9, fish and tree



Special provisions (SP) A97, A158, A197, A215

Excepted quantities (EQ) E1

Limited quantities (LQ) 30 kg

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Seveso Directive

| 2012/18/EU (Seveso III) | | | | |
|-------------------------|--|---|-----|-------|
| No | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements | | Notes |
| E2 | environmental hazards (hazardous to the aquatic environment, cat. 2) | 200 | 500 | 57) |

Notation

57) hazardous to the Aquatic Environment in category Chronic 2

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

Water Framework Directive (WFD)

None of the ingredients are listed.

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Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013

None of the ingredients are listed.

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

National regulations (GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

None of the ingredients are listed.

Restrictions according to GB REACH, Annex 17

| Dangerous substances with restrictions (GB REACH, Annex 17) | | | |
|---|--|---------------------------|----|
| Name | Name acc. to inventory | Conditions of restriction | No |
| Synmar Faustina 80W-90 LSD 2000 | this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC | R3 | 3 |

Legend

R3

- Shall not be used in:
 - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
 - tricks and jokes,
 - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
- Articles not complying with paragraph 1 shall not be placed on the market.
- Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
 - can be used as fuel in decorative oil lamps for supply to the general public, and,
 - present an aspiration hazard and are labelled with R65 or H304,
- Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the British Standard Specification on Decorative oil lamps (BS EN 14059) adopted by the British Standards Institute.
- Without prejudice to the implementation of other legislation relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
 - lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010 'Just a sip of lamp oil'
 - or even sucking the wick of lamps
 - may lead to life-threatening lung damage';
 - grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life-threatening lung damage';
 - lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.
- Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the Agency.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|-----------------|---|
| Acute Tox. | Acute toxicity |
| ADR | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road) |
| Aquatic Acute | Hazardous to the aquatic environment - acute hazard |
| Aquatic Chronic | Hazardous to the aquatic environment - chronic hazard |
| Asp. Tox. | Aspiration hazard |
| ATE | Acute Toxicity Estimate |

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| Abbr. | Descriptions of used abbreviations |
|------------|--|
| BCF | Bioconcentration factor |
| BOD | Biochemical Oxygen Demand |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| COD | Chemical oxygen demand |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No-Effect Level |
| EC50 | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval |
| EC No | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) |
| ED | Endocrine disruptor |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| EL50 | Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms |
| ELINCS | European List of Notified Chemical Substances |
| EmS | Emergency Schedule |
| ErC50 | = EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control |
| Eye Dam. | Seriously damaging to the eye |
| Eye Irrit. | Irritant to the eye |
| GB CLP | The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended) |
| GB REACH | The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended) |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| ICAO-TI | Technical instructions for the safe transport of dangerous goods by air |
| IMDG | International Maritime Dangerous Goods Code |
| IMDG-Code | International Maritime Dangerous Goods Code |
| index No | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 |
| LC50 | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval |
| LD50 | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval |
| LEL | Lower explosion limit (LEL) |
| LL50 | Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality |
| LOEC | Lowest Observed Effect Concentration |
| log KOW | n-Octanol/water |
| M-factor | Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present |

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| Abbr. | Descriptions of used abbreviations |
|-------------|---|
| NLP | No-Longer Polymer |
| NOEC | No Observed Effect Concentration |
| NOELR | No Observed Effect Loading Rate |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted No-Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| Skin Corr. | Corrosive to skin |
| Skin Irrit. | Irritant to skin |
| Skin Sens. | Skin sensitisation |
| STOT RE | Specific target organ toxicity - repeated exposure |
| STOT SE | Specific target organ toxicity - single exposure |
| UEL | Upper explosion limit (UEL) |
| vPvB | Very Persistent and very Bioaccumulative |

Key literature references and sources for data

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended). The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended). GB mandatory classification and labelling.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text |
|------|--|
| 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. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

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Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.