

Synmar Coolant Organic -26 LL

Version number: 1.0

Date of compilation: 2022-08-09

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

1.1 Product identifier

| | |
|---------------------------------|--------------------------------------|
| Trade name | Synmar Coolant Organic -26 LL |
| Unique formula identifier (UFI) | FF10-D0AD-Q00M-XRMJ |
| Article number | S500002 |

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

| | |
|--------------------------|---|
| Relevant identified uses | Coolant 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 |
|---------|--|----------|---------------------------|------------------|
| 3.10 | acute toxicity (oral) | 4 | Acute Tox. 4 | H302 |
| 3.9 | specific target organ toxicity - repeated exposure | 2 | STOT RE 2 | H373 |

For full text of H-phrases: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure.

2.2 Label elements

Labelling (acc. to GB CLP)

- signal word Warning

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- pictograms

GHS07, GHS08



- hazard statements

H302

Harmful if swallowed.

H373

May cause damage to organs (kidney) through prolonged or repeated exposure (if swallowed).

- precautionary statements

P101

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

P102

Keep out of reach of children.

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P264

Wash hands thoroughly after handling.

P270

Do not eat, drink or smoke when using this product.

P314

Get medical advice/attention if you feel unwell.

P330

Rinse mouth.

P501

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

Tactile warning of danger

yes

- hazardous ingredients for labelling

Contains: ethanediol; 2,2'-oxybisethanol.

2.3 Other hazards

There is no additional information.

Results of PBT and vPvB assessment

Does not contain any substances that are assessed to be a PBT or a vPvB $\geq 0.1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in 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 any 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 |
|--------------------|--|-----------|---|---|-------|
| ethanediol | CAS No 107-21-1 EC No 203-473-3 Index No 603-027-00-1 | 25 - < 50 | Acute Tox. 4 / H302 STOT RE 2 / H373 |  | |
| 2,2'-oxybisethanol | CAS No 111-46-6 EC No 203-872-2 Index No 603-140-00-6 | 2.5 - < 5 | Acute Tox. 4 / H302 |  | |

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

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| Name of substance | Identifier | Wt% | Classification acc. to GHS | Pictograms | Notes |
|----------------------------|---|-----|--|---|-------|
| potassium 2-ethylhexanoate | CAS No 3164-85-0 EC No 221-625-7 | < 1 | Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Repr. 2 / H361d |  | |

| Name of substance | Identifier | Specific Conc. Limits | M-Factors | ATE | Exposure route |
|--------------------|--|-----------------------|-----------|-----------|----------------|
| ethanediol | CAS No 107-21-1 EC No 203-473-3 | - | - | 500 mg/kg | oral |
| 2,2'-oxybisethanol | CAS No 111-46-6 EC No 203-872-2 | - | - | 500 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 case of accident or if you feel unwell, seek medical advice immediately (show the label or safety data sheet where possible).

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). Induce vomiting when the affected person is not unconscious. Call a POISON CENTER/doctor.

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; Alcohol resistant foam; Dry extinguishing powder; Carbon dioxide (CO₂);
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.

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.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Bunding. Covering of drains.

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.). Clean up by means of pumps (use an explosion-proof or hand pump).

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.

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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.

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. Wash contaminated clothing before reuse. 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 feeding-stuffs.

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.
- 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, frost.

Consideration of other advice

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

- packaging compatibilities

Keep only in original container.

7.3 Specific end use(s)

There is no additional information.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

| Occupational exposure limit values (Workplace Exposure Limits) | | | | | | | | | |
|--|-------------------|----------|------------|-----------|--------------------------|------------|---------------------------|----------|-----------|
| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m ³] | STEL [ppm] | STEL [mg/m ³] | Notation | Source |
| GB | ethane-1,2-diol | 107-21-1 | WEL | | 10 | | | particle | EH40/2005 |
| GB | ethane-1,2-diol | 107-21-1 | WEL | 20 | 52 | 40 | 104 | vap | EH40/2005 |
| GB | 2,2'-oxydiethanol | 111-46-6 | WEL | 23 | 101 | | | | EH40/2005 |

Notation

particle as airborne particles
 STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
 TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)
 vap as vapours

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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 |
| ethanediol | 107-21-1 | DNEL | 35 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| ethanediol | 107-21-1 | DNEL | 106 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| ethanediol | 107-21-1 | DNEL | 7 mg/m ³ | human, inhalatory | consumer (private households) | chronic - local effects |
| ethanediol | 107-21-1 | DNEL | 53 mg/kg bw/day | human, dermal | consumer (private households) | chronic - systemic effects |
| 2,2'-oxybisethanol | 111-46-6 | DNEL | 44 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| 2,2'-oxybisethanol | 111-46-6 | DNEL | 60 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| 2,2'-oxybisethanol | 111-46-6 | DNEL | 43 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| 2,2'-oxybisethanol | 111-46-6 | DNEL | 12 mg/m ³ | human, inhalatory | consumer (private households) | chronic - systemic effects |
| 2,2'-oxybisethanol | 111-46-6 | DNEL | 12 mg/m ³ | human, inhalatory | consumer (private households) | chronic - local effects |
| 2,2'-oxybisethanol | 111-46-6 | DNEL | 21 mg/kg bw/day | human, dermal | consumer (private households) | chronic - systemic effects |
| potassium 2-ethylhexanoate | 3164-85-0 | DNEL | 41.98 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| potassium 2-ethylhexanoate | 3164-85-0 | DNEL | 5.95 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| potassium 2-ethylhexanoate | 3164-85-0 | DNEL | 10.35 mg/m ³ | human, inhalatory | consumer (private households) | chronic - systemic effects |
| potassium 2-ethylhexanoate | 3164-85-0 | DNEL | 2.98 mg/kg bw/day | human, dermal | consumer (private households) | chronic - systemic effects |
| potassium 2-ethylhexanoate | 3164-85-0 | DNEL | 2.98 mg/kg bw/day | human, oral | consumer (private households) | chronic - systemic effects |

| Relevant PNECs of components of the mixture | | | | | | |
|---|----------|-----------|-----------------|-------------------|------------------------------|------------------------------|
| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
| ethanediol | 107-21-1 | PNEC | 10 mg/l | aquatic organisms | water | intermittent release |
| ethanediol | 107-21-1 | PNEC | 10 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| ethanediol | 107-21-1 | PNEC | 1 mg/l | aquatic organisms | marine water | short-term (single instance) |
| ethanediol | 107-21-1 | PNEC | 199.5 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| ethanediol | 107-21-1 | PNEC | 37 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |

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| Relevant PNECs of components of the mixture | | | | | | |
|---|-----------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
| ethanediol | 107-21-1 | PNEC | 3.7 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| ethanediol | 107-21-1 | PNEC | 1.53 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| 2,2'-oxybisethanol | 111-46-6 | PNEC | 10 mg/l | aquatic organisms | water | intermittent release |
| 2,2'-oxybisethanol | 111-46-6 | PNEC | 10 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| 2,2'-oxybisethanol | 111-46-6 | PNEC | 1 mg/l | aquatic organisms | marine water | short-term (single instance) |
| 2,2'-oxybisethanol | 111-46-6 | PNEC | 199.5 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| 2,2'-oxybisethanol | 111-46-6 | PNEC | 20.9 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| 2,2'-oxybisethanol | 111-46-6 | PNEC | 2.09 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| 2,2'-oxybisethanol | 111-46-6 | PNEC | 1.53 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| potassium 2-ethylhexanoate | 3164-85-0 | PNEC | 0.36 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| potassium 2-ethylhexanoate | 3164-85-0 | PNEC | 0.036 mg/l | aquatic organisms | marine water | short-term (single instance) |
| potassium 2-ethylhexanoate | 3164-85-0 | PNEC | 0.493 mg/l | aquatic organisms | water | intermittent release |
| potassium 2-ethylhexanoate | 3164-85-0 | PNEC | 71.7 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| potassium 2-ethylhexanoate | 3164-85-0 | PNEC | 6.37 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| potassium 2-ethylhexanoate | 3164-85-0 | PNEC | 0.637 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| potassium 2-ethylhexanoate | 3164-85-0 | PNEC | 1.06 mg/kg | terrestrial organisms | soil | short-term (single instance) |

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection

Skin protection



Chemical protective clothing.

- hand protection



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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 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, NP: neoprene

- material thickness

Use gloves with a minimum material thickness: ≥ 0.3 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. Provide eyewash stations and safety showers at the workplace.

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 | red |
| Odour | characteristic |
| Melting point/freezing point | not determined |
| Boiling point or initial boiling point and boiling range | 100 °C 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 | not determined |
| Auto-ignition temperature | 372 °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 | not determined |

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Solubility(ies)

| | |
|------------------|----------------------------|
| Water solubility | miscible in any proportion |
|------------------|----------------------------|

| | |
|---|-----------------------------------|
| Partition coefficient n-octanol/water (log value) | this information is not available |
|---|-----------------------------------|

| | |
|-----------------|--|
| Vapour pressure | 100 Pa at 51.1 °C calculated value, referring to a component of the mixture |
|-----------------|--|

| | |
|---------|----------------|
| Density | not determined |
|---------|----------------|

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

9.2 Other information

There is no additional information.

| | |
|--|---|
| Information with regard to physical hazard classes | hazard classes acc. to GHS (physical hazards): not relevant |
|--|---|

Other safety characteristics

| | |
|-------------|---------------------------------|
| Miscibility | Completely miscible with water. |
|-------------|---------------------------------|

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.

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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

Harmful if swallowed.

- acute toxicity estimate (ATE)

| Exposure route | ATE |
|----------------|-------------|
| Oral | 1,385 mg/kg |

- acute toxicity of components of the mixture

| Acute toxicity estimate (ATE) of components of the mixture | | | |
|--|----------|----------------|-----------|
| Name of substance | CAS No | Exposure route | ATE |
| ethanediol | 107-21-1 | oral | 500 mg/kg |
| 2,2'-oxybisethanol | 111-46-6 | oral | 500 mg/kg |

| Acute toxicity of components of the mixture | | | | | |
|---|-----------|---------------------------|----------|--------------|---------|
| Name of substance | CAS No | Exposure route | Endpoint | Value | Species |
| ethanediol | 107-21-1 | oral | LD50 | 7,712 mg/kg | rat |
| ethanediol | 107-21-1 | dermal | LD50 | >3,500 mg/kg | mouse |
| 2,2'-oxybisethanol | 111-46-6 | inhalation: dust/ mist | LC50 | >4.6 mg/l/4h | rat |
| 2,2'-oxybisethanol | 111-46-6 | dermal | LD50 | 13,300 mg/kg | rabbit |
| potassium 2-ethylhexanoate | 3164-85-0 | oral | LD50 | 2,043 mg/kg | rat |
| potassium 2-ethylhexanoate | 3164-85-0 | 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

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

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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

May cause damage to organs (kidney) through prolonged or repeated exposure (if swallowed).

| Hazard category | Target organ | Exposure route |
|-----------------|--------------|----------------|
| 2 | kidney | if swallowed |

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 (EDC) in a concentration of $\geq 0.1\%$.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

| Aquatic toxicity (acute) of components of the mixture | | | | | |
|---|-----------|-------------------------|------------------------|-----------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| ethanediol | 107-21-1 | LC50 | $>72,860 \text{ mg/l}$ | fish | 96 h |
| ethanediol | 107-21-1 | EC50 | $>100 \text{ mg/l}$ | aquatic invertebrates | 48 h |
| ethanediol | 107-21-1 | ErC50 | $<13,000 \text{ mg/l}$ | algae | 96 h |
| ethanediol | 107-21-1 | NOEC | $>100 \text{ mg/l}$ | algae | 72 h |
| 2,2'-oxybisethanol | 111-46-6 | LC50 | $75,200 \text{ mg/l}$ | fish | 96 h |
| 2,2'-oxybisethanol | 111-46-6 | EC50 | $>10,000 \text{ mg/l}$ | aquatic invertebrates | 24 h |
| potassium 2-ethylhexanoate | 3164-85-0 | LC50 | $>100 \text{ mg/l}$ | fish | 96 h |
| potassium 2-ethylhexanoate | 3164-85-0 | ErC50 | 49.3 mg/l | algae | 72 h |
| potassium 2-ethylhexanoate | 3164-85-0 | growth rate (Er-Cx) 10% | 32 mg/l | algae | 72 h |

| Aquatic toxicity (chronic) of components of the mixture | | | | | |
|---|----------|-------------------|---------------------------|-----------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| ethanediol | 107-21-1 | LC50 | $>1,500 \text{ mg/l}$ | fish | 28 d |
| ethanediol | 107-21-1 | EC50 | $>15,000 \text{ mg/l}$ | aquatic invertebrates | 21 d |
| ethanediol | 107-21-1 | NOEC | $\geq 1,000 \text{ mg/l}$ | aquatic invertebrates | 23 d |
| ethanediol | 107-21-1 | growth (EbCx) 20% | $>1,995 \text{ mg/l}$ | microorganisms | 30 min |

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| Aquatic toxicity (chronic) of components of the mixture | | | | | |
|---|-----------|-------------------|--------------|-----------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| 2,2'-oxybisethanol | 111-46-6 | EC50 | >10,000 mg/l | aquatic invertebrates | 24 h |
| 2,2'-oxybisethanol | 111-46-6 | growth (EbCx) 20% | >1,995 mg/l | microorganisms | 30 min |
| potassium 2-ethylhexanoate | 3164-85-0 | EC50 | 75 mg/l | aquatic invertebrates | 21 d |
| potassium 2-ethylhexanoate | 3164-85-0 | NOEC | 25 mg/l | aquatic invertebrates | 21 d |
| potassium 2-ethylhexanoate | 3164-85-0 | LOEC | 63 mg/l | aquatic invertebrates | 21 d |
| potassium 2-ethylhexanoate | 3164-85-0 | growth (EbCx) 10% | 71.7 mg/l | microorganisms | 17 h |

12.2 Persistence and degradability

Data are not available.

| Degradability of components of the mixture | | | | | |
|--|-----------|-------------|------------------|------|--------|
| Name of substance | CAS No | Process | Degradation rate | Time | Method |
| ethanediol | 107-21-1 | DOC removal | 90 – 100 % | 10 d | |
| potassium 2-ethylhexanoate | 3164-85-0 | DOC removal | 99 % | 28 d | |

12.3 Bioaccumulative potential

Data are not available.

| Bioaccumulative potential of components of the mixture | | | | |
|--|-----------|-----|---------|----------|
| Name of substance | CAS No | BCF | Log KOW | BOD5/COD |
| ethanediol | 107-21-1 | | -1.36 | |
| 2,2'-oxybisethanol | 111-46-6 | 100 | -1.98 | |
| potassium 2-ethylhexanoate | 3164-85-0 | | 2.96 | |

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Does not contain any substances that are assessed to be a PBT or a vPvB \geq 0.1%.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of \geq 0.1%.

12.7 Other adverse effects

Data are not available.

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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/packagings

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 | not subject to transport regulations |
| 14.2 UN proper shipping name | not relevant |
| 14.3 Transport hazard class(es) | none |
| 14.4 Packing group | not assigned |
| 14.5 Environmental hazards | non-environmentally hazardous acc. to the dangerous goods regulations |
| 14.6 Special precautions for user | There is no additional information. |
| 14.7 Maritime transport in bulk according to IMO instruments | No data available. |

Information for each of the UN Model Regulations

International Maritime Dangerous Goods Code (IMDG) - additional information

Not subject to IMDG.

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

Not subject to ICAO-IATA.

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 |
| | not assigned | | |

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

None of the ingredients are listed.

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Water Framework Directive (WFD)

| List of pollutants (WFD) | | | | |
|----------------------------|---|--------|-----------|---------|
| Name of substance | Name acc. to inventory | CAS No | Listed in | Remarks |
| 2,2'-oxybisethanol | Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment | | a) | |
| potassium 2-ethylhexanoate | Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment | | a) | |

Legend

A) Indicative list of the main pollutants

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 of substance | Name acc. to inventory | CAS No | Conditions of restriction | No |
| Synmar Coolant Organic -26 LL | 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

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Legend

December 2010 as

follows: 'Just a sip of grill lighter may lead to life-threatening lung damage';

(c) 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.

7. 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) |
| ATE | Acute Toxicity Estimate |
| 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) |
| EH40/2005 | EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/) |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| 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 |

Safety Data Sheet

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

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| Abbr. | Descriptions of used abbreviations |
|-------------|---|
| IMDG | 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) |
| LOEC | Lowest Observed Effect Concentration |
| log KOW | n-Octanol/water |
| NLP | No-Longer Polymer |
| NOEC | No Observed Effect Concentration |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted No-Effect Concentration |
| ppm | Parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| Repr. | Reproductive toxicity |
| 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 |
| STEL | Short-term exposure limit |
| STOT RE | Specific target organ toxicity - repeated exposure |
| TWA | Time-weighted average |
| UEL | Upper explosion limit (UEL) |
| vPvB | Very Persistent and very Bioaccumulative |
| WEL | Workplace exposure limit |

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).

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

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

| Code | Text |
|-------|--|
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H361d | Suspected of damaging the unborn child. |
| H373 | May cause damage to organs (kidney) through prolonged or repeated exposure (if swallowed). |

Disclaimer

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