

Safety Data Sheet

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



FungoFluid

Version number: GHS 2.0
Replaces version of: 13.09.2022 (GHS 1)

Revision
13.09.2022

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

1.1 Product identifier

| | |
|---------------------------------|--|
| Trade name | FungoFluid |
| Registration number (REACH) | not relevant (mixture) |
| Unique formula identifier (UFI) | UFI: P4GA-76DR-Y00K-FMCMV as indicated on the label |

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

| | |
|--------------------------|--|
| Relevant identified uses | Biocidal product Observe technical data sheet |
| Uses advised against | Observe technical data sheet |

1.3 Details of the supplier of the safety data sheet

Baumit GmbH
Wopfing 156
A-2754 Waldegg
Austria

Telephone: +43 (0)501 888 0

This number is only available during office hours: Mon - Thu 07:00 - 17:00
Fri 07:00 - 12:00

e-mail: office@baumit.com

e-mail (competent person) office@baumit.com

1.4 Emergency telephone number

| Poison centre | | | |
|---------------|---|----------------------|---------------------|
| Country | Name | Postal code/ city | Telephone |
| Austria | Vergiftungsinformationszentrale an der 1. Medizinischen Universitätsklinik 24h Notruf Mo-So | 1090 Wien | +43 (0)1 4064 343-0 |

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

| Section | Hazard class | Cat-egory | 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 abbreviations: 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 according to Regulation (EC) No 1272/2008 (CLP)

- Signal word warning

- 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.
P103 Read carefully and follow all instructions.
P260 Do not breathe spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
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.
P362+P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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- Biocidal Products Regulation (BPR)

Contains:

| Biocidal active substances |
|---|
| Name of substance |
| Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides |
| 2-Octyl-2H-isothiazol-3-on |

2.2.1.7- Hazardous ingredients for labelling

2-Octyl-2H-isothiazol-3-on

2.3 Other hazards

Of no significance.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

| Name of substance | Identifier | Wt% | Classification acc. to GHS | Pictograms |
|---|--|---------------|---|------------|
| Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides | CAS No 68424-85-1 EC No 939-253-5 REACH Reg. No 01-2119965180-41-xxxx | 1 - < 2,5 | Acute Tox. 4 / H302 Acute Tox. 2 / H330 Skin Corr. 1B / H314 Eye Dam. 1 / H318 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410 | |
| 2-Octyl-2H-isothiazol-3-on | CAS No 26530-20-1 EC No 247-761-7 Index No 613-112-00-5 REACH Reg. No 01-2120768921-45-xxxx | 0,05 - < 0,25 | Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 2 / H330 Skin Corr. 1 / H314 Eye Dam. 1 / H318 Skin Sens. 1A / H317 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410 | |

| Name of substance | Specific Conc. Limits | M-Factors | ATE | Exposure route |
|---|-----------------------------------|--|---|---|
| Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides | - | M-factor (acute) = 10 | 795 mg/kg 0,22 mg/l/4h | oral inhalation: dust/mist |
| 2-Octyl-2H-isothiazol-3-on | Skin Sens. 1A; H317: C ≥ 0,0015 % | M-factor (acute) = 100 M-factor (chronic) = 100 | 125 mg/kg 300 mg/kg 0,5 mg/l/4h 0,27 mg/l/4h | oral dermal inhalation: vapour inhalation: dust/mist |

For full text of abbreviations: see SECTION 16.

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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. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

None.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Nitrogen oxides (NO_x)

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

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

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: Sawdust, Kieselgur (diatomite), Sand, Universal binder

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. 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.

7.2 Conditions for safe storage, including any incompatibilities

Control of effects

Protect against external exposure, such as frost

- Packaging compatibilities

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

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| 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] | Ceiling-C [ppm] | Ceiling-C [mg/m ³] | Notation | Source |
| AT | 2-octyl-2H-isothiazol-3-one | 26530-20-1 | MAK | | 0,05 | | | | 0,05 | i, H | GKV |

Notation

Ceiling-C

ceiling value is a limit value above which exposure should not occur

H

absorbed through the skin

i

inhalable fraction

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)

Human health values

| Relevant DNELs and other threshold levels | | | | |
|---|------------------------|------------------------------------|-------------------|----------------------------|
| Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| DNEL | 3,96 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| DNEL | 5,7 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |

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| Relevant DNELs of components of the mixture | | | | | | |
|---|------------|----------|------------------------|------------------------------------|-------------------|----------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides | 68424-85-1 | DNEL | 3,96 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides | 68424-85-1 | DNEL | 5,7 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |

Environmental values

| Relevant PNECs and other threshold levels | | | | |
|---|-----------------|-----------------------|------------------------------|------------------------------|
| Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
| PNEC | 0,001 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| PNEC | 0,001 mg/l | aquatic organisms | marine water | short-term (single instance) |
| PNEC | 0,4 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| PNEC | 12,27 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| PNEC | 13,09 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| PNEC | 7 mg/kg | terrestrial organisms | soil | short-term (single instance) |

| Relevant PNECs of components of the mixture | | | | | | |
|---|------------|----------|-----------------|-------------------|------------------------------|------------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
| Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides | 68424-85-1 | PNEC | 0,001 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides | 68424-85-1 | PNEC | 0,001 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides | 68424-85-1 | PNEC | 0,4 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides | 68424-85-1 | PNEC | 12,27 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 | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
| Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides | 68424-85-1 | PNEC | 13,09 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides | 68424-85-1 | PNEC | 7 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| 2-Octyl-2H-isothiazol-3-on | 26530-20-1 | PNEC | 2,2 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| 2-Octyl-2H-isothiazol-3-on | 26530-20-1 | PNEC | 0,22 µg/l | aquatic organisms | marine water | short-term (single instance) |
| 2-Octyl-2H-isothiazol-3-on | 26530-20-1 | PNEC | 47,5 µg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| 2-Octyl-2H-isothiazol-3-on | 26530-20-1 | PNEC | 4,75 µg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| 2-Octyl-2H-isothiazol-3-on | 26530-20-1 | PNEC | 8,2 µg/kg | terrestrial organisms | soil | short-term (single instance) |

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8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Eye/face protection



Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. 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.

- 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.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|---|
| Physical state | liquid |
| Colour | colourless |
| Odour | mild |
| Melting point/freezing point | 0 °C |
| Boiling point or initial boiling point and boiling range | 100 °C |
| Flammability | non-combustible |
| Lower and upper explosion limit | not determined |
| Flash point | not determined |
| Auto-ignition temperature | not determined |
| Decomposition temperature | not relevant |
| pH (value) | 4 - 5 (in aqueous solution: 1 % (w/w), 20 °C) |
| Kinematic viscosity | not determined |

Solubility(ies)

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

Partition coefficient

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

| | |
|-----------------|--------|
| Vapour pressure | 23 hPa |
|-----------------|--------|

Density and/or relative density

| | |
|-------------------------|---|
| Density | 1 g/cm ³ at 20 °C |
| Relative vapour density | information on this property is not available |

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

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9.2 Other 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

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

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 hazard classes as defined in Regulation (EC) No 1272/2008

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 according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful in contact with skin.

| Acute toxicity estimate (ATE) of components of the mixture | | | |
|---|------------|-----------------------|--------------|
| Name of substance | CAS No | Exposure route | ATE |
| Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides | 68424-85-1 | oral | 795 mg/kg |
| Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides | 68424-85-1 | inhalation: dust/mist | 0,22 mg/l/4h |
| 2-Octyl-2H-isothiazol-3-on | 26530-20-1 | oral | 125 mg/kg |
| 2-Octyl-2H-isothiazol-3-on | 26530-20-1 | dermal | 300 mg/kg |

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| Acute toxicity estimate (ATE) of components of the mixture | | | |
|--|------------|-----------------------|--------------------------|
| Name of substance | CAS No | Exposure route | ATE |
| 2-Octyl-2H-isothiazol-3-on | 26530-20-1 | inhalation: vapour | 0,5 mg _i /4h |
| 2-Octyl-2H-isothiazol-3-on | 26530-20-1 | inhalation: dust/mist | 0,27 mg _i /4h |

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.

Classification Octylisothiazolinone:

Not skin sensitising based on results on similar mixtures tested using transfer principles according to CLP Regulation Article 9 (4); OECD 429 LLNA (mouse) - Not skin sensitising - S4565 / S4568 / S5145 / S5147.

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

There is no additional information.

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SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

| Aquatic toxicity (chronic) | | | |
|----------------------------|---------|----------------|---------------|
| Endpoint | Value | Species | Exposure time |
| LC50 | 94 µg/l | fish | 28 d |
| EC50 | 11 mg/l | microorganisms | 30 min |

| Aquatic toxicity (chronic) of components of the mixture | | | | | |
|---|------------|----------|---------|----------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides | 68424-85-1 | LC50 | 94 µg/l | fish | 28 d |
| Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides | 68424-85-1 | EC50 | 11 mg/l | microorganisms | 30 min |

Biodegradation

The relevant substances of the mixture are readily biodegradable.

12.2 Persistence and degradability

| Process of degradability | | |
|---------------------------|------------------|------|
| Process | Degradation rate | Time |
| oxygen depletion | 63 % | 28 d |
| carbon dioxide generation | 95,5 % | 28 d |

| Degradability of components of the mixture | | | | | | |
|---|------------|---------------------------|------------------|------|--------|--------|
| Name of substance | CAS No | Process | Degradation rate | Time | Method | Source |
| Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides | 68424-85-1 | oxygen depletion | 63 % | 28 d | | ECHA |
| Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides | 68424-85-1 | carbon dioxide generation | 95,5 % | 28 d | | ECHA |

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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 |
| Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides | 68424-85-1 | 79 | 0,004 (20 °C) | |
| 2-Octyl-2H-isothiazol-3-on | 26530-20-1 | 2,92 | 2,61 (pH value: 7, 25 °C) | |

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

None of the ingredients are listed.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste codes/waste designations according to LoW Organic wastes containing hazardous substances
16 03 05*: Organic wastes containing hazardous substances

* Hazardous waste

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

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 or ID number

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

14.2 UN proper shipping name

| | |
|-------------|---|
| ADR/RID/ADN | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
|-------------|---|

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| | |
|--|---|
| IMDG-Code | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| ICAO-TI | Environmentally hazardous substance, liquid, n.o.s. |
| Technical name (hazardous ingredients) | Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides, 2-Octyl-2H-isothiazol-3-on |
| 14.3 Transport hazard class(es) | |
| ADR/RID/ADN | 9 |
| IMDG-Code | 9 |
| ICAO-TI | 9 |
| 14.4 Packing group | |
| ADR/RID/ADN | III |
| IMDG-Code | III |
| ICAO-TI | III |
| 14.5 Environmental hazards | hazardous to the aquatic environment |
| 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 | |
| The cargo is not intended to be carried in bulk. | |

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - 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 |
| Excepted quantities (EQ) | E1 |
| Limited quantities (LQ) | 5 L |
| Transport category (TC) | 3 |
| Tunnel restriction code (TRC) | - |
| Hazard identification No | 90 |

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International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant YES (hazardous to the aquatic environment) (Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides)

Danger label(s) 9, fish and tree



Special provisions (SP) 274, 335, 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)

Restrictions according to REACH, Annex XVII

| Dangerous substances with restrictions (REACH, Annex XVII) | | | | | | | |
|--|--|--------|-------|-------------------------|---|-------------|----|
| Name of substance | Name acc. to inventory | CAS No | EC No | Type of registration | Remarks | Restriction | No |
| FungoFluid | this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC | | | 1907/2006/EC annex XVII | Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard | R3 | 3 |

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| Dangerous substances with restrictions (REACH, Annex XVII) | | | | | | | |
|--|------------------------|------------|-----------|----------------------|--|-------------|----|
| Name of substance | Name acc. to inventory | CAS No | EC No | Type of registration | Remarks | Restriction | No |
| | | | | | classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1. | | |
| 2-Octyl-2H-isothiazol-3-on | | 26530-20-1 | 247-761-7 | | | | |

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 H304.
- Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
- Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
 - (a) lamp oils, labelled with 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";
 - (b) grill lighter fluids, labelled with 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 fluid may lead to life threatening lung damage";
 - (c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.;

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

none of the ingredients are listed

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

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

none of the ingredients are listed

Water Framework Directive (WFD)

| List of pollutants (WFD) | | | |
|---|--------|-----------|---------|
| Name of substance | CAS No | Listed in | Remarks |
| FungoFluid | | a) | |
| Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides | | a) | |

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Legend

A) Indicative list of the main pollutants

Regulation on the marketing and use of explosives precursors

Not relevant.

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

National regulations (Austria)

Ordinance on combustible liquids (VbF) not assigned (flash point higher than 55 °C, water miscible)

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|---|--|-----------------|
| 2.2 | | Biocidal active substances: change in the listing (table) | yes |
| 2.2.1.7 | | - Hazardous ingredients for labelling: 2-Octyl-2H-isothiazol-3-on | yes |
| 3.2 | | Description of the mixture: change in the listing (table) | yes |
| 3.2 | | Description of the mixture: change in the listing (table) | yes |
| 8.1 | | Relevant PNECs of components of the mixture: change in the listing (table) | yes |
| 11.1 | | Acute toxicity estimate (ATE) of components of the mixture: change in the listing (table) | yes |
| 12.3 | | Bioaccumulative potential of components of the mixture: change in the listing (table) | yes |
| 14.2 | Technical name (hazardous ingredients): Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides, 2-octyl-2H-isothiazol-3-one | Technical name (hazardous ingredients): Quaternary ammonium compounds, benzyl C12-C16 (even numbered)-alkyldimethyl chlorides, 2-Octyl-2H-isothiazol-3-on | yes |
| 15.1 | | Dangerous substances with restrictions (REACH, Annex XVII): change in the listing (table) | yes |
| 15.1 | | List of pollutants (WFD): change in the listing (table) | yes |

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Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|-----------------|---|
| Acute Tox. | Acute toxicity |
| ADN | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road) |
| ADR/RID/ADN | Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN) |
| Aquatic Acute | Hazardous to the aquatic environment - acute hazard |
| Aquatic Chronic | Hazardous to the aquatic environment - chronic hazard |
| 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) |
| Ceiling-C | Ceiling value |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures |
| COD | Chemical oxygen demand |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| 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) |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| EmS | Emergency Schedule |
| Eye Dam. | Seriously damaging to the eye |
| Eye Irrit. | Irritant to the eye |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| GKV | Grenzwerteverordnung |
| 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 |

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| Abbr. | Descriptions of used abbreviations |
|-------------|--|
| 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 |
| log KOW | n-Octanol/water |
| LoW | List of Wastes |
| 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 |
| NLP | No-Longer Polymer |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted No-Effect Concentration |
| ppm | Parts per million |
| 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 |
| STEL | Short-term exposure limit |
| SVHC | Substance of Very High Concern |
| TWA | Time-weighted average |
| vPvB | Very Persistent and very Bioaccumulative |

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). 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 |
|------|--|
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |

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| Code | Text |
|------|---|
| H318 | Causes serious eye damage. |
| H330 | Fatal if inhaled. |
| 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. |

Disclaimer

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