

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

FreshUp Sparkling Tabs 5 g

Version number: GHS 3.0 (2019-12-20)

Replaces version: GHS 2 (2019-03-18)

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

1.1 **Product identifier** Trade name FreshUp Sparkling Tabs 5 g SDS-Ref 07570 1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses Water treatment chemical Professional use Consumer use (private households) Details of the supplier of the safety data sheet Steinbach VertriebsgmbH 1.3 Aistinger Straße 2 4311 Schwertberg Austria Telephone: +43 7262 61431 0

Telephone: +43 7262 61431 0 e-Mail: info@steinbach.at

e-Mail (competent person): sdb@steinbach.at

1.4 Emergency telephone number

| Country | Name | Postal code/city | Telephone | Opening hours |
|---------------------|--------------------------------------|------------------|----------------------|---------------|
| Austria | Vergiftungsinformationszentrale | 1090 Wien | +43 1 406 4343 (24h) | |
| United King- dom | National Poisons Information Service | | 111 (24h) | |

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

| Section | Hazard class | Category | Hazard class and cat- egory | Hazard state- ment |
|---------|--|----------|--------------------------------|-----------------------|
| 3.10 | acute toxicity (oral) | 4 | Acute Tox. 4 | H302 |
| 3.3 | serious eye damage/eye irritation | 2 | Eye Irrit. 2 | H319 |
| 3.8R | specific target organ toxicity - single exposure (respiratory tract irritation) | 3 | STOT SE 3 | H335 |
| 4.1A | hazardous to the aquatic environment - acute hazard | 1 | Aquatic Acute 1 | H400 |
| 4.1C | hazardous to the aquatic environment - chronic hazard | 1 | Aquatic Chronic 1 | H410 |

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





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- Hazard statements

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|-------------------------|--------------|
| | |

| H302 | Harmful if swallowed. | |
|---------------------------|--|-------------------|
| H319 | Causes serious eye irritation. | |
| H335 | May cause respiratory irritation. | |
| H410 | Very toxic to aquatic life with long lasting effects. | |
| - Precautionary statement | nts | |
| P101 | If medical advice is needed, have product container or label at hand. | |
| P102 | Keep out of reach of children. | |
| P271 | Use only outdoors or in a well-ventilated area. | |
| P301+P330+P331 | IF SWALLOWED: rinse mouth. Do NOT induce vomiting. | |
| P312 | Call a POISON CENTRE/doctor if you feel unwell. | |
| P391 | Collect spillage. | |
| P501 | Dispose of contents/container to hazardous or special waste collection poi | int. |
| - Supplemental hazard in | nformation | |
| EUH031 | Contact with acids liberates toxic gas. | |
| EUH206 | Warning! Do not use together with other products. May release dangerous | gases (chlorine). |
| - Hazardous ingredients f | for labelling Symclosene | |

2.3 Other hazards

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture).

3.2 Mixtures

Description of the mixture

| Name of substance | Identifier | Classification acc. to GHS | Pictograms | Wt% |
|-------------------|--|---|------------|-----------|
| Symclosene | CAS No 87-90-1 EC No 201-782-8 Index No 613-031-00-5 REACH Reg. No 01-2120767978-27-xxxx | Ox. Sol. 2 / H272 Acute Tox. 4 / H302 Eye Irrit. 2 / H319 STOT SE 3 / H335 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410 | | 50 - < 75 |
| Sodium carbonate | CAS No 497-19-8 EC No 207-838-8 Index No 011-005-00-2 REACH Reg. No 01-2119485498-19-xxxx | Eye Irrit. 2 / H319 | (!) | 10-<25 |



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| Name of substance | Identifier | Classification acc. to GHS | Pictograms | Wt% |
|-------------------|--|----------------------------|------------|-----------|
| Adipic acid | CAS No 124-04-9 | Eye Irrit. 2 / H319 | | 2.5 - < 5 |
| | EC No 204-673-3 | | | |
| | Index No 607-144-00-9 | | | |
| | REACH Reg. No 01-2119457561-38-xxxx | | | |

For full text of abbreviations: 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. Keep affected person warm, still and covered. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Take off immediately all contaminated clothing. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

Mouth to mouth resuscitation should be avoided. Use alternative methods, preferably with oxygen or compressed air driven apparatus. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Rinse skin with water/shower.

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. In all cases of doubt, or when symptoms persist, seek medical advice.

Following ingestion

Rinse mouth with water (only if the person is conscious). Let be drunken in little sips: 0,1-0,2l Water. 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.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water, Foam, ABC-powder

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Hydrogen chloride (HCl), Chlorine (Cl2)



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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. Ventilate affected area.

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. Take up mechanically.

Advice on how to clean up a spill

Take up mechanically.

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 only in well-ventilated areas. Use local and general ventilation.
- Specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

- Handling of incompatible substances or mixtures

Do not mix with acids.

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 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

Managing of associated risks

- Explosive atmospheres

Removal of dust deposits.



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Control of effects

- Protect against external exposure, such as

High temperatures, Frost, Humidity, UV-radiation/sunlight

- Ventilation requirements

Use local and general ventilation.

Packaging compatibilities

Professional use: Only packagings which are approved (e.g. acc. to ADR) may be used. Consumer use (private households): Keep only in original container.

Conditions of storage

Keep container tightly closed in a cool place. Protect from sunlight. Keep away from children.

7.3 Specific end use(s)

There is no additional information.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| _ | - | | | - | | - | | | | | |
|-------------|---------------|---------------|-----------------|--------------|--------------------|---------------|---------------------|-------------------------|--|---------------|--------------------|
| Coun try | Name of agent | CAS No | lden- tifier | TWA [ppm] | TWA [mg/ m³] | STEL [ppm] | STEL [mg/ m³] | Ceil- ing-C [ppm] | Ceil- ing-C [mg/ m ³] | Nota- tion | Sourc e |
| EU | chlorine | 7782- 50-5 | IOELV | | | 0.5 | 1.5 | | | proc | 2006 /15/ EC |
| GB | dust | | WEL | | 10 | | | | | i | EH40 / 2005 |
| GB | dust | | WEL | | 4 | | | | | r | EH40 / 2005 |
| GB | chlorine | 7782- 50-5 | WEL | | | 0.5 | 1.5 | | | proc | EH40 / 2005 |

Notation

| Ceiling-C | ceiling value is a limit value above which exposure should not occur |
|-----------|--|
| i | inhalable fraction |
| proc | substances released during the process |
| r | respirable 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 spe- |
| | cified) |
| TWA | time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (un- |
| | less otherwise specified) |

| Relevant DNELs of components of the mixture | | | | | | | | | |
|---|----------|----------|--------------------|------------------------------------|----------------------------------|-------------------------------|--|--|--|
| Name of substance | CAS No | Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time | | | |
| Adipic acid | 124-04-9 | DNEL | 65 mg/m³ | human, inhalatory | consumer (private households) | chronic - systemic effects | | | |
| Adipic acid | 124-04-9 | DNEL | 65 mg/m³ | human, inhalatory | consumer (private households) | acute - systemic effects | | | |
| Adipic acid | 124-04-9 | DNEL | 19 mg/kg bw/day | human, dermal | consumer (private households) | 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 | | |
| Adipic acid | 124-04-9 | DNEL | 19 mg/kg bw/day | human, dermal | consumer (private households) | acute - systemic effects | | |
| Adipic acid | 124-04-9 | DNEL | 19 mg/kg bw/day | human, oral | consumer (private households) | chronic - systemic effects | | |
| Adipic acid | 124-04-9 | DNEL | 19 mg/kg bw/day | human, oral | consumer (private households) | acute - systemic effects | | |

Relevant PNECs of components of the mixture

| Name of substance | CAS No | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
|-------------------|----------|----------|-----------------------------|-----------------------|---------------------------------|---------------------------------|
| Adipic acid | 124-04-9 | PNEC | 0.126 ^{mg} /I | aquatic organisms | freshwater | short-term (single instance) |
| Adipic acid | 124-04-9 | PNEC | 0.013 ^{mg} /I | aquatic organisms | marine water | short-term (single instance) |
| Adipic acid | 124-04-9 | PNEC | 59.1 ^{mg} /I | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Adipic acid | 124-04-9 | PNEC | 0.484 ^{mg} / kg | aquatic organisms | freshwater sedi- ment | short-term (single instance) |
| Adipic acid | 124-04-9 | PNEC | 0.048 ^{mg} / kg | aquatic organisms | marine sediment | short-term (single instance) |
| Adipic acid | 124-04-9 | PNEC | 0.023 ^{mg} / kg | terrestrial organisms | soil | short-term (single instance) |

8.2 Exposure controls (professional use)

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

- Eye/face protection

Use safety goggle with side protection.

Skin protection

- Hand protection

In the case of wanting to use the gloves again, clean them before taking off and air them well.

- Type of material

PVC: polyvinyl chloride, NR: natural rubber, latex

- Other protection measures

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

Respiratory protection

Particulate filter device (EN 143)

Environmental exposure controls

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



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9.1 Information on basic physical and chemical properties

SECTION 9: Physical and chemical properties

| Physical state | solid |
|---|---|
| Colour | white |
| Odour | characteristic |
| Other safety parameters | |
| pH (value) | 6 – 7 (water: 10 ^g / _I , 25 °C) |
| Melting point/freezing point | 225 °C |
| Initial boiling point and boiling range | not determined |
| Flash point | not applicable |
| Evaporation rate | not determined |
| Flammability (solid, gas) | non-combustible |
| Vapour pressure | 66.9 Pa at 20 °C |
| Density | not determined |
| Vapour density | this information is not available |
| Relative density | information on this property is not available |
| Auto-ignition temperature | >400 °C |
| Decomposition temperature | >225 °C |
| Viscosity | not relevant (solid matter) |
| Explosive properties | none |
| Oxidising properties | none |
| Solubility(ies) | not determined |
| Partition coefficient | |
| - n-Octanol/water (log KOW) | 0.94 |

9.2 Other information

There is no additional information.

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.



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Hints to prevent fire or explosion

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

10.5 Incompatible materials

There is no additional information.

Release of toxic materials with:

Acids

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

Acute toxicity

Harmful if swallowed.

GHS of the United Nations, annex 4: May be harmful if inhaled.

Acute toxicity estimate (ATE)

Oral 793.7 ^{mg}/kg

| Acute toxicity estimate (ATE) of components of the mixture | | | | | |
|--|---------|------|-----------------------------------|--|--|
| Name of substance CAS No Exposure route ATE | | | | | |
| Symclosene | 87-90-1 | oral | 500 ^{mg} / _{kg} | | |

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

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.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

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



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Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
|-------------------|----------|----------|------------------------|-----------------------|------------------|
| Symclosene | 87-90-1 | LC50 | 0.23 ^{mg} /I | fish | 96 h |
| Symclosene | 87-90-1 | EC50 | 0.17 ^{mg} /l | aquatic invertebrates | 48 h |
| Symclosene | 87-90-1 | EbC50 | 2,700 ^{mg} /I | algae | 72 h |
| Symclosene | 87-90-1 | ErC50 | >100 ^{mg} /I | algae | 72 h |
| Sodium carbonate | 497-19-8 | LC50 | 300 ^{mg} /I | fish | 96 h |
| Sodium carbonate | 497-19-8 | EC50 | 227 ^{mg} /l | aquatic invertebrates | 48 h |
| Adipic acid | 124-04-9 | LC50 | 46 ^{mg} /I | aquatic invertebrates | 48 h |
| Adipic acid | 124-04-9 | ErC50 | 59 ^{mg} /I | algae | 72 h |

Aquatic toxicity (chronic) of components of the mixture

| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
|-------------------|----------|----------|------------------------|-----------------------|------------------|
| Symclosene | 87-90-1 | EC50 | 2,600 ^{mg} /l | aquatic invertebrates | 21 d |
| Adipic acid | 124-04-9 | EC50 | 18 ^{mg} /I | aquatic invertebrates | 21 d |

12.2 Persistence and degradability

Data are not available.

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 | |
| Symclosene | 87-90-1 | | -1.31 (25 °C) | | |
| Adipic acid | 124-04-9 | 3.162 | 0.093 (pH value: 3.3, 25 °C) | | |

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.



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12.6 Other adverse effects

Endocrine disrupting potential

None of the ingredients are listed.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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.

Other disposal recommendations

Dispose of contents/container to hazardous or special waste collection point. Waste treatment of containers/packagings: Mixed municipal waste.

Relevant provisions relating to waste

List of wastes (EU), Decision 2000/532/EC on the list of waste

Product Code/ Type of waste: 19 09 99

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.

| SEC | TION 14: Transport information | |
|------|--|--|
| 14.1 | UN number | 3077 |
| 14.2 | UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
| | Technical name (hazardous ingredients) | Symclosene |
| 14.3 | Transport hazard class(es) | |
| | Class | 9 (environmentally hazardous) |
| 14.4 | Packing group | III (substance presenting low danger) |
| 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 Transport in bulk according to Annex II of MARPOL and the IBC Code

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)

| UN number | 3077 |
|----------------------|--|
| Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
| Class | 9 |
| Classification code | M7 |
| Packing group | III |
| Danger label(s) | 9, fish and tree |
| | |

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|------------------------------------|--|
| Environmental hazards | yes (hazardous to the aquatic environment) |
| Special provisions (SP) | 274, 335, 375, 601 |
| Excepted quantities (EQ) | E1 |
| Limited quantities (LQ) | 5 kg |
| Transport category (TC) | 3 |
| Tunnel restriction code (TRC) | - |
| Hazard identification No | 90 |
| Emergency Action Code | 2Z |
| International Maritime Dangerou | s Goods Code (IMDG) |
| UN number | 3077 |
| Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
| Class | 9 |
| Marine pollutant | yes (hazardous to the aquatic environment) |
| Packing group | |
| Danger label(s) | 9, fish and tree |
| | |
| Special provisions (SP) | 274, 335, 966, 967, 969 |
| Excepted quantities (EQ) | E1 |
| Limited quantities (LQ) | 5 kg |
| EmS | F-A, S-F |
| Stowage category | A |
| International Civil Aviation Organ | nization (ICAO-IATA/DGR) |
| UN number | 3077 |
| Proper shipping name | Environmentally hazardous substance, solid, n.o.s. |
| Class | 9 |
| Environmental hazards | yes (hazardous to the aquatic environment) |
| Packing group | III |
| Danger label(s) | 9, fish and tree |
| | |
| Special provisions (SP) | A97, A158, A179, A197 |
| 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

None of the ingredients are listed.

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

None of the ingredients are listed

Seveso Directive

| No | Dangerous substance/hazard categories | |
|---------------------|--|--|
| E1 | environmental hazards (hazardous to the aquatic environment, cat. 1) | |
| Deco-Paint Directiv | re (2004/42/EC) | |
| VOC content | 0 % | |



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| Directive on industrial emissions (VOCs, 2010/ | 75/EU) | |
|--|--------|--|
| | | |

VOC content

0%

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

None of the ingredients are listed.

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

None of the ingredients are listed.

National inventories

| Country | Inventory | Status | | | | |
|---------|------------|----------------------------|--|--|--|--|
| EU | REACH Reg. | all ingredients are listed | | | | |
| Leaend | Leaend | | | | | |

REACH Reg. REACH registered substances

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 | | - Precautionary statements: change in the listing (table) | yes |
| 3.2 | | Description of the mixture: change in the listing (table) | yes |
| 5.2 | Hazardous combustion products: Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2), Hydrogen chloride (HCl), Chlorine (Cl2) | Hazardous combustion products: Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Hydrogen chloride (HCl), Chlorine (Cl2) | yes |
| 7.3 | Specific end use(s): See section 16 for a general overview. | Specific end use(s): There is no additional information. | yes |
| 9.1 | Melting point/freezing point: 150.9 °C | Melting point/freezing point: 225 °C | yes |
| 9.1 | Initial boiling point and boiling range: 337.5 °C at 1,013 hPa | Initial boiling point and boiling range: not determined | yes |
| 9.1 | Solubility(ies): not determined | | yes |
| 9.1 | Partition coefficient | | yes |
| 9.1 | - n-octanol/water (log KOW): this information is not available | | yes |
| 9.1 | Decomposition temperature: >270 °C | Decomposition temperature: >225 °C | yes |
| 9.1 | Oxidising properties: none | | yes |
| 9.1 | | Oxidising properties: none | yes |
| 9.1 | | Solubility(ies): not determined | yes |



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| Section | Former entry (text/value) | Actual entry (text/value) | Safety- relevant |
|---------|--|---|---------------------|
| 9.1 | | Partition coefficient | yes |
| 9.1 | | n-Octanol/water (log KOW): 0.94 | yes |
| 10.5 | Incompatible materials: Oxidisers | Incompatible materials: There is no additional information. | yes |
| 11.1 | | Acute toxicity estimate (ATE) | yes |
| 13.1 | Professional use: Dispose of contents/container to hazardous or special waste col- lection point. Waste treatment of containers/packagings: Mixed municipal waste. | | yes |
| 13.1 | Consumer use (private households): Dispose of contents/container to hazardous or special waste col- lection point. Waste treatment of containers/packagings: Mixed municipal waste. | | yes |
| 13.1 | | Other disposal recommendations: Dispose of contents/container to hazardous or special waste col- lection point. Waste treatment of containers/packagings: Mixed municipal waste. | yes |
| 13.1 | | Relevant provisions relating to waste | yes |
| 13.1 | | List of wastes (EU), Decision 2000/532/EC on the list of waste: Product Code/ Type of waste: 19 09 99 | yes |
| 14.3 | Class: 9 | Class: 9 (environmentally hazardous) | yes |
| 14.7 | | Danger label(s): change in the listing (table) | yes |
| 14.7 | | Danger label(s): change in the listing (table) | yes |
| 14.7 | | Danger label(s): change in the listing (table) | yes |
| 16 | | Abbreviations and acronyms: change in the listing (table) | yes |

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|-----------------|--|
| 2006/15/EC | Commission Directive establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC |
| Acute Tox. | acute toxicity |
| ADN | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement con- cerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR | Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Car- riage of Dangerous Goods by Road) |
| 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 |



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

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Replaces version: GHS 2 (2019-03-18)

| Abbr. | Descriptions of used abbreviations | |
|------------|---|--|
| EbC50 | = EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relat- ive to the control | |
| 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 | |
| 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) rela ive to the control | |
| 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 | |
| IATA | International Air Transport Association | |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) | |
| ICAO | International Civil Aviation Organization | |
| 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 | |
| IOELV | indicative occupational exposure limit value | |
| LC50 | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50% lethality during a specified time interva | |
| log KOW | n-octanol/water | |
| MARPOL | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") | |
| NLP | No-Longer Polymer | |
| Ox. Sol. | oxidising solid | |
| 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) | |
| STEL | short-term exposure limit | |
| STOT SE | specific target organ toxicity - single exposure | |
| SVHC | Substance of Very High Concern | |
| TWA | time-weighted average | |
| VOC | Volatile Organic Compounds | |
| vPvB | very Persistent and very Bioaccumulative | |
| WEL | workplace exposure limit | |

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 2015/830/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).



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

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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 chapter 2 and 3)

| Code | Text |
|------|---|
| H272 | May intensify fire; oxidiser. |
| H302 | Harmful if swallowed. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H400 | Very toxic to aquatic life. |
| H410 | Very 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.