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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)
Revision date / version: 04.02.2025 / 0003
Replacing version dated / version: 04.12.2024 / 0002
Valid from: 04.02.2025
PDF print date: 04.02.2025
Rapid Rinseless Wash
Art.: 475999

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

1.1 Product identifier

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

Relevant identified uses of the substance or mixture:

Vehicle cleansing

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

Koch-Chemie GmbH
Einsteinstrasse 42
59423 Unna
Telefon: +49 (0) 2303 / 9 86 70 - 0
Fax: +49 (0) 2303 / 9 86 70 - 26
info@koch-chemie.com
www.koch-chemie.com

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

IRL

National Poisons Information Centre, Beaumont Hospital, Dublin 9, Ireland, Tel.:
+353 (0)1 809 2166 (Public Poisons Info Line, 8am-10pm, 7 days a week)
+353 (0)1 809 2566 (Info for Healthcare Professionals ONLY, 24 h, 7 days a week)

Telephone number of the company in case of emergencies:

+1 872 5888271 (KCC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

| Hazard class | Hazard category | Hazard statement |
|-----------------|-----------------|---|
| Skin Sens. | 1 | H317-May cause an allergic skin reaction. |
| Aquatic Chronic | 3 | H412-Harmful to aquatic life with long lasting effects. |

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)

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Warning

H317-May cause an allergic skin reaction. H412-Harmful to aquatic life with long lasting effects.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.

P261-Avoid breathing vapours or spray. P273-Avoid release to the environment. P280-Wear protective gloves.

P333+P313-If skin irritation or rash occurs: Get medical advice / attention.

P501-Dispose of contents / container to an approved waste disposal facility.

2-Octyl-2H-isothiazol-3-one

2.3 Other hazards

The mixture contains a vPvB substance (vPvB = very persistent, very bioaccumulative).

The mixture contains a PBT substance (PBT = persistent, bioaccumulative, toxic).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a.

3.2 Mixtures

| | |
|---|--|
| Siloxanes and silicones, di-Me, hydroxy-terminated, ethoxylated propoxylated | |
| Registration number (REACH) | --- |
| Index | --- |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 613-581-6 |
| CAS | 64365-23-7 |
| content % | 3-<5 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Aquatic Chronic 2, H411 |
| Specific Concentration Limits and ATE | ATE (oral): >5000 mg/kg ATE (dermal): >5000 mg/kg |

| | |
|---|--|
| Decamethylcyclopentasiloxane | PBT-substance vPvB-substance SVHC-substance |
| Registration number (REACH) | --- |
| Index | --- |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 208-764-9 |
| CAS | 541-02-6 |
| content % | <0,5 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | --- |

| | |
|-----------------------|--|
| Bronopol (INN) | |
|-----------------------|--|

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| | |
|---|--|
| Registration number (REACH) | --- |
| Index | 603-085-00-8 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 200-143-0 |
| CAS | 52-51-7 |
| content % | 0,01-<0,1 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Acute Tox. 4, H312 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) |
| Specific Concentration Limits and ATE | ATE (oral): 305 mg/kg ATE (dermal): 1600 mg/kg |

| Octamethylcyclotetrasiloxane | PBT-substance vPvB-substance SVHC-substance |
|---|--|
| Registration number (REACH) | 01-2119529238-36-XXXX |
| Index | 014-018-00-1 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 209-136-7 |
| CAS | 556-67-2 |
| content % | 0,01-<0,1 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Flam. Liq. 3, H226 Repr. 2, H361f Aquatic Chronic 1, H410 (M=10) |

| 2-Octyl-2H-isothiazol-3-one | |
|---|---|
| Registration number (REACH) | --- |
| Index | 613-112-00-5 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 247-761-7 |
| CAS | 26530-20-1 |
| content % | 0,0015-<0,01 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | EUH071 Acute Tox. 2, H330 Acute Tox. 3, H301 Acute Tox. 3, H311 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) |
| Specific Concentration Limits and ATE | Skin Sens. 1A, H317: >=0,0015 % ATE (oral): 125 mg/kg ATE (dermal): 311 mg/kg ATE (as inhalation, Mist): 0,27 mg/l/4h ATE (as inhalation, Vapours): 0,5 mg/l/4h |

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.
 For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

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Never pour anything into the mouth of an unconscious person!

Inhalation

Supply person with fresh air and consult doctor according to symptoms.

Skin contact

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Rinse the mouth thoroughly with water.

Give copious water to drink - consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

reddening of the skin

Allergic reaction

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Adapt to the nature and extent of fire.

Water jet spray / alcohol resistant foam / CO₂ / dry extinguisher.

Unsuitable extinguishing media

None known

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Toxic gases

5.3 Advice for firefighters

For personal protective equipment see Section 8.

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

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Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.

Flush residue using copious water.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Avoid contact with eyes or skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Store at room temperature.

Store in a dry place.

7.3 Specific end use(s)

No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment.

Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries,

depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Decamethylcyclopentasiloxane | | | | | | |
|------------------------------|--|------------------|------------|---------|-------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 0,0012 | mg/l | |
| | Environment - marine | | PNEC | 0,00012 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 11 | mg/kg | |
| | Environment - sediment, marine | | PNEC | 1,1 | mg/kg | |
| | Environment - soil | | PNEC | 2,54 | mg/kg | |
| | Environment - sewage treatment plant | | PNEC | 10 | mg/l | |

| | | | | | | |
|---------------------|----------------------------------|------------------------------|------|------|------------|--|
| | Environment - oral (animal feed) | | PNEC | 16 | mg/kg | |
| Consumer | Human - inhalation | Short term, systemic effects | DNEL | 17,3 | mg/m3 | |
| Consumer | Human - inhalation | Short term, local effects | DNEL | 4,3 | mg/m3 | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 17,3 | mg/m3 | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 4,3 | mg/m3 | |
| Consumer | Human - oral | Short term, systemic effects | DNEL | 5 | mg/kg bw/d | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 5 | mg/kg bw/d | |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 97,3 | mg/m3 | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 24,2 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 97,3 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 24,2 | mg/m3 | |

| Bronopol (INN) | | | | | | |
|----------------------------|--|------------------------------|-------------------|--------------|--------------|-------------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 0,01 | mg/l | |
| | Environment - marine | | PNEC | 0,0008 | mg/l | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 0,0025 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 0,43 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 0,041 | mg/kg dw | |
| | Environment - sediment, marine | | PNEC | 0,00328 | mg/kg dw | |
| | Environment - soil | | PNEC | 0,5 | mg/kg dw | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 0,6 | mg/m3 | |
| Consumer | Human - inhalation | Short term, systemic effects | DNEL | 1,8 | mg/m3 | |
| Consumer | Human - inhalation | Short term, local effects | DNEL | 0,6 | mg/m3 | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 0,7 | mg/kg bw/day | |
| Consumer | Human - dermal | Short term, systemic effects | DNEL | 2,1 | mg/kg bw/day | |
| Consumer | Human - dermal | Long term, local effects | DNEL | 0,004 | mg/cm2 | |
| Consumer | Human - dermal | Short term, local effects | DNEL | 0,004 | mg/cm2 | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 0,18 | mg/kg bw/day | |
| Consumer | Human - oral | Short term, systemic effects | DNEL | 0,5 | mg/kg bw/day | |
| Workers / employees | Human - dermal | Long term, local effects | DNEL | 0,008 | mg/cm2 | |

| | | | | | | |
|---------------------|--------------------|------------------------------|------|-------|--------------|--|
| Workers / employees | Human - dermal | Short term, local effects | DNEL | 0,008 | mg/cm2 | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 3,5 | mg/m3 | |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 10,5 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 2,5 | mg/m3 | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 2,5 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 2 | mg/kg bw/day | |
| Workers / employees | Human - dermal | Short term, systemic effects | DNEL | 6 | mg/kg bw/day | |

| Octamethylcyclotetrasiloxane | | | | | | |
|-------------------------------------|---|------------------------------|-------------------|--------------|--------------|-------------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 1,5 | µg/l | |
| | Environment - sewage treatment plant | | PNEC | 10 | mg/l | |
| | Environment - soil | | PNEC | 0,54 | mg/kg | |
| | Environment - sediment, freshwater | | PNEC | 3 | mg/kg | |
| | Environment - marine | | PNEC | 0,15 | µg/l | |
| | Environment - sediment, marine | | PNEC | 0,3 | mg/kg | |
| | Environment - oral (animal feed) | | PNEC | 41 | mg/kg feed | |
| Consumer | Human - oral | Short term, systemic effects | DNEL | 3,7 | mg/kg bw/day | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 3,7 | mg/kg bw/day | |
| Consumer | Human - inhalation | Short term, systemic effects | DNEL | 13 | mg/m3 | |
| Consumer | Human - inhalation | Short term, local effects | DNEL | 13 | mg/m3 | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 13 | mg/m3 | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 13 | mg/kg | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 73 | mg/m3 | |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 73 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 73 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 73 | mg/m3 | |

8.2 Exposure controls

8.2.1 Appropriate engineering controls

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

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Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Chemical resistant protective gloves (EN ISO 374).

If applicable

Protective gloves in butyl rubber (EN ISO 374).

Protective Neoprene® / polychloroprene gloves (EN ISO 374).

Protective nitrile gloves (EN ISO 374).

Minimum layer thickness in mm:

0,5

Permeation time (penetration time) in minutes:

480

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Protective hand cream recommended.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

Normally not necessary.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|---|--|
| Physical state: | Liquid |
| Colour: | Opaque |
| Odour: | Characteristic |
| Melting point/freezing point: | There is no information available on this parameter. |
| Boiling point or initial boiling point and boiling range: | There is no information available on this parameter. |
| Flammability: | There is no information available on this parameter. |
| Lower explosion limit: | There is no information available on this parameter. |
| Upper explosion limit: | There is no information available on this parameter. |
| Flash point: | There is no information available on this parameter. |
| Auto-ignition temperature: | There is no information available on this parameter. |
| Decomposition temperature: | There is no information available on this parameter. |
| pH: | 4,5 (weakly acidic) |
| Kinematic viscosity: | There is no information available on this parameter. |
| Solubility: | There is no information available on this parameter. |
| Partition coefficient n-octanol/water (log value): | Does not apply to mixtures. |
| Vapour pressure: | There is no information available on this parameter. |
| Density and/or relative density: | 1,0 g/cm ³ |
| Relative vapour density: | There is no information available on this parameter. |

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Particle characteristics: Does not apply to liquids.
9.2 Other information
 No information available at present.

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

None known

10.5 Incompatible materials

None known

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Possibly more information on health effects, see Section 2.1 (classification).

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| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|---|----------|-------|------|----------|-------------|--------|
| Acute toxicity, by oral route: | | | | | | n.d.a. |
| Acute toxicity, by dermal route: | | | | | | n.d.a. |
| Acute toxicity, by inhalation: | | | | | | n.d.a. |
| Skin corrosion/irritation: | | | | | | n.d.a. |
| Serious eye damage/irritation: | | | | | | n.d.a. |
| Respiratory or skin sensitisation: | | | | | | n.d.a. |
| Germ cell mutagenicity: | | | | | | n.d.a. |
| Carcinogenicity: | | | | | | n.d.a. |
| Reproductive toxicity: | | | | | | n.d.a. |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | n.d.a. |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | | | n.d.a. |
| Aspiration hazard: | | | | | | n.d.a. |
| Symptoms: | | | | | | n.d.a. |

Decamethylcyclopentasiloxane

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|----------------------------------|----------|--------|---------|----------|--------------------------------------|---------|
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | > 2000 | mg/kg | Rat | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | 8,67 | mg/l/4h | Rat | OECD 403 (Acute Inhalation Toxicity) | Aerosol |

| | | | | | | |
|---|-------|--------|------------|------------------------|--|-------------------|
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Not irritant |
| Respiratory or skin sensitisation: | | | | Mouse | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | No (skin contact) |
| Germ cell mutagenicity: | | | | Mammalian | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative |
| Germ cell mutagenicity: | | | | Mouse | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Rat | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative vapour |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Rat | OECD 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells In Vivo) | Negative |
| Carcinogenicity: | | | | | | Negative |
| Reproductive toxicity: | | | | Rat | | Negative |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | >=1000 | mg/kg bw/d | Rat | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | |
| Specific target organ toxicity - repeated exposure (STOT-RE), dermal: | NOAEL | >=1600 | mg/kg bw/d | Rat | OECD 410 (Repeated Dose Dermal Toxicity - 90-Day) | |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEL | >=160 | mg/l/6h/d | Rat | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies) | Vapours |

Bronopol (INN)

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|----------------------------------|----------|-------|-------|----------|--|------------------------------------|
| Acute toxicity, by oral route: | LD50 | 305 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | data of a diluted aqueous solution |
| Acute toxicity, by oral route: | ATE | 305 | mg/kg | | | |
| Acute toxicity, by dermal route: | ATE | 1600 | mg/kg | | | |
| Acute toxicity, by dermal route: | LD50 | 1600 | mg/kg | Rat | | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Irritant |
| Serious eye damage/irritation: | | | | Rabbit | (Draize-Test) | Risk of serious damage to eyes. |

| | | | | | | |
|---|--|--|--|--|--|--|
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | May cause respiratory irritation. |
| Symptoms: | | | | | | eyes, reddened, drowsiness, coughing, mucous membrane irritation, nausea and vomiting. |

Octamethylcyclotetrasiloxane

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|---|----------|-------|------------|------------------------|--|-----------------|
| Acute toxicity, by oral route: | LD50 | 4800 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >2375 | mg/kg | Rat | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | 36 | mg/l/4h | Rat | OECD 403 (Acute Inhalation Toxicity) | |
| Skin corrosion/irritation: | | | | Rat | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Not irritant |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | Not sensitising |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Mouse | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative |
| Carcinogenicity: | NOAEL | 150 | mg/kg | Rat | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies) | inhalation |
| Reproductive toxicity: | NOAEL | | | Rat | OECD 416 (Two-generation Reproduction Toxicity Study) | Repr. 2 |
| Reproductive toxicity (Developmental toxicity): | NOAEL | 300 | ppm | Rat | OECD 414 (Prenatal Developmental Toxicity Study) | |
| Specific target organ toxicity - repeated exposure (STOT-RE), dermal: | NOAEL | 960 | mg/kg bw/d | Rabbit | OECD 410 (Repeated Dose Dermal Toxicity - 90-Day) | (21 d) |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC | 150 | mg/kg | Rat | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies) | |

2-Octyl-2H-isothiazol-3-one

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|----------------------------------|----------|-------|---------|----------|-------------|------------|
| Acute toxicity, by oral route: | ATE | 125 | mg/kg | | | |
| Acute toxicity, by dermal route: | ATE | 311 | mg/kg | | | |
| Acute toxicity, by inhalation: | ATE | 0,27 | mg/l/4h | | | Dust, Mist |
| Acute toxicity, by inhalation: | ATE | 0,5 | mg/l/4h | | | Vapours |

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| | | | | | | | |
|--|-----|--|---|---|--|--|---|
| 12.2. Persistence and degradability: | | | | | | | The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. |
| 12.3. Bioaccumulative potential: | | | | | | | n.d.a. |
| 12.4. Mobility in soil: | | | | | | | n.d.a. |
| 12.5. Results of PBT and vPvB assessment | | | | | | | n.d.a. |
| 12.6. Endocrine disrupting properties: | | | | | | | Does not apply to mixtures. |
| 12.7. Other adverse effects: | | | | | | | No information available on other adverse effects on the environment. |
| Other information: | | | | | | | DOC-elimination degree(complexing organic substance) \geq 80%/28d: No |
| Other information: | AOX | | 0 | % | | | According to the recipe, contains no AOX. |

Decamethylcyclopentasiloxane

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|-------------------------|----------|------|-------|------|---------------------|---|---|
| 12.1. Toxicity to fish: | LC50 | 96h | >16 | µg/l | Oncorhynchus mykiss | OECD 204 (Fish, Prolonged Toxicity Test - 14-Day Study) | Water toxicology is above the water-solubility value. |

| | | | | | | | |
|--|-----------|------|-------|-------|---------------------------------|--|---|
| 12.1. Toxicity to fish: | NOEC/NOEL | >60d | >14 | µg/l | Oncorhynchus mykiss | OECD 210 (Fish, Early-Life Stage Toxicity Test) | Water toxicology is above the water-solubility value.90 d |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | >15 | µg/l | Daphnia magna | OECD 211 (Daphnia magna Reproduction Test) | Water toxicology is above the water-solubility value. |
| 12.1. Toxicity to daphnia: | EC50 | 48h | >2,9 | µg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | Water toxicology is above the water-solubility value. |
| 12.1. Toxicity to algae: | EC50 | 96h | >12 | µg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test) | Water toxicology is above the water-solubility value. |
| 12.1. Toxicity to algae: | NOEC/NOEL | 96h | >= 12 | µg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test) | Water toxicology is above the water-solubility value. |
| 12.2. Persistence and degradability: | | 28d | 0,14 | % | | OECD 310 (Ready Biodegradability - CO2 in sealed vessels (Headspace Test)) | Not readily biodegradable |
| 12.3. Bioaccumulative potential: | BCF | | 7060 | | | OECD 305 (Bioconcentration - Flow-Through Fish Test) | High |
| 12.3. Bioaccumulative potential: | Log Pow | | 8,023 | | | OECD 123 (Partition Coefficient (1-Octanol / Water) - Slow-Stirring Method) | A notable biological accumulation potential has to be expected (LogPow > 3).25,3 °C |
| 12.5. Results of PBT and vPvB assessment | | | | | | | vPvB-substance, PBT-substance |
| Toxicity to bacteria: | EC50 | 3h | >2000 | mg/l | activated sludge | Regulation (EC) 440/2008 C.11 (BIODEGRADATION - ACTIVATED SLUDGE RESPIRATION INHIBITION) | |
| Toxicity to annelids: | NOEC/NOEL | | >=76 | mg/kg | Eisenia foetida | | |
| Water solubility: | | | <0,05 | mg/l | | | @25°C |

Bronopol (INN)

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|-------------------------|----------|------|-------|------|---------------------|-------------|-------|
| 12.1. Toxicity to fish: | LC50 | 96h | 41,2 | mg/l | Oncorhynchus mykiss | | |

| | | | | | | | |
|--|---------|-----|-----------|------|------------------------------|--|--|
| 12.1. Toxicity to fish: | LC50 | 96h | 11 | mg/l | Lepomis macrochirus | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 1,4 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to algae: | EC50 | 72h | 0,4 - 2,8 | mg/l | Pseudokirchneria subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | DOC | | 50 | % | | ISO 9888 | Biodegradable |
| 12.2. Persistence and degradability: | | 28d | 100 | % | | | Readily biodegradable |
| 12.3. Bioaccumulative potential: | Log Pow | | 0,18-0,22 | | | | Not accepted due to the log Pow - value. |
| 12.3. Bioaccumulative potential: | BCF | | 3,16 | | | | |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | EC50 | 3h | 43 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |

Octamethylcyclotetrasiloxane

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--|-----------|------|----------|------|------------------------------|--|-------------------------------|
| 12.1. Toxicity to fish: | LC50 | 96h | >0,022 | mg/l | Oncorhynchus mykiss | U.S. EPA ECOTOX Database | |
| 12.1. Toxicity to fish: | NOEC/NOEL | >60d | >=0,0044 | mg/l | Oncorhynchus mykiss | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | >0,015 | mg/l | Daphnia magna | U.S. EPA ECOTOX Database | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | >0,015 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to algae: | EC50 | 72h | >0,022 | mg/l | Pseudokirchneria subcapitata | U.S. EPA ECOTOX Database | |
| 12.2. Persistence and degradability: | | 28d | 3,7 | % | activated sludge | OECD 310 (Ready Biodegradability - CO2 in sealed vessels (Headspace Test)) | Not readily biodegradable |
| 12.3. Bioaccumulative potential: | Log Pow | | 6,98 | | | | 21,7 °C |
| 12.3. Bioaccumulative potential: | BCF | 28d | 12400 | | Pimephales promelas | | EPA OTS 797.1520 |
| 12.5. Results of PBT and vPvB assessment | | | | | | | PBT-substance, vPvB-substance |
| 12.6. Endocrine disrupting properties: | | | | | | | No |
| Toxicity to bacteria: | EC50 | 3h | >10000 | mg/l | activated sludge | ISO 8192 | |

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| 2-Octyl-2H-isothiazol-3-one | | | | | | | |
|--|-----------------|-------------|--------------|-------------|----------------------|--|-------------------------------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | 0,047 | mg/l | Oncorhynchus mykiss | | |
| 12.1. Toxicity to fish: | NOEC/NOEL | 35d | 0,0085 | mg/l | Pimephales promelas | | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 0,003 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 0,32 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to algae: | ErC10 | 48h | 0,000224 | mg/l | Navicula pelliculosa | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | 0,00129 | mg/l | Navicula pelliculosa | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | | 25 | % | | | Not readily biodegradable |
| 12.3. Bioaccumulative potential: | Log Pow | | 2,92-2,95 | | | | |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| 12.6. Endocrine disrupting properties: | | | | | | | Negative |
| Toxicity to bacteria: | EC50 | | 30,2 | mg/l | activated sludge | | |
| Toxicity to bacteria: | EC20 | 3h | 7,3 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

20 01 29 detergents containing hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Untampered packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

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15 01 02 plastic packaging

SECTION 14: Transport information

General statements

Transport by road/by rail (ADR/RID)

| | |
|-----------------------------------|----------------|
| 14.1. UN number or ID number: | Not applicable |
| 14.2. UN proper shipping name: | Not applicable |
| 14.3. Transport hazard class(es): | Not applicable |
| 14.4. Packing group: | Not applicable |
| 14.5. Environmental hazards: | Not applicable |
| Tunnel restriction code: | Not applicable |
| Classification code: | Not applicable |
| LQ: | Not applicable |
| Transport category: | Not applicable |

Transport by sea (IMDG-code)

| | |
|-----------------------------------|----------------|
| 14.1. UN number or ID number: | Not applicable |
| 14.2. UN proper shipping name: | Not applicable |
| 14.3. Transport hazard class(es): | Not applicable |
| 14.4. Packing group: | Not applicable |
| 14.5. Environmental hazards: | Not applicable |
| Marine Pollutant: | Not applicable |
| EmS: | Not applicable |

Transport by air (IATA)

| | |
|-----------------------------------|----------------|
| 14.1. UN number or ID number: | Not applicable |
| 14.2. UN proper shipping name: | Not applicable |
| 14.3. Transport hazard class(es): | Not applicable |
| 14.4. Packing group: | Not applicable |
| 14.5. Environmental hazards: | Not applicable |

14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

14.7. Maritime transport in bulk according to IMO instruments

Non-dangerous material according to Transport Regulations.

SECTION 15: Regulatory information

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

Observe restrictions:

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!

Regulation (EC) No 1907/2006, Annex XVII

Decamethylcyclotetrasiloxane

Octamethylcyclotetrasiloxane

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!

Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC):

~ 0,5 %

REGULATION (EC) No 648/2004

less than 5 %

non-ionic surfactants

perfumes

LIMONENE

2-BROMO-2-NITROPROPANE-1,3-DIOL

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OCTYLISOTHIAZOLINONE

Treated goods as per Regulation (EU) No. 528/2012 must display specific information on the label.
 Please note Article 58 paragraph (3) subparagraph 2 of Regulation (EU) No. 528/2012.
 Approval of the biocidal active substance may mean that special conditions are required for marketing the treated goods.
 These are indicated in the approval of the active substance.

National requirements/regulations on safety and health protection must be applied when using work equipment.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections: 3, 8, 11, 12, 16
 These details refer to the product as it is delivered.
 Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

| Classification in accordance with regulation (EC) No. 1272/2008 (CLP) | Evaluation method used |
|--|--|
| Skin Sens. 1, H317 | Classification according to calculation procedure. |
| Aquatic Chronic 3, H412 | Classification according to calculation procedure. |

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents.
 H330 Fatal if inhaled.
 H361f Suspected of damaging fertility.
 H226 Flammable liquid and vapour.
 H317 May cause an allergic skin reaction.
 H314 Causes severe skin burns and eye damage.
 H301 Toxic if swallowed.
 H302 Harmful if swallowed.
 H311 Toxic in contact with skin.
 H312 Harmful in contact with skin.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H335 May cause respiratory irritation.
 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.
 EUH071 Corrosive to the respiratory tract.

Skin Sens. — Skin sensitization
 Aquatic Chronic — Hazardous to the aquatic environment - chronic
 Acute Tox. — Acute toxicity - dermal
 Acute Tox. — Acute toxicity - oral
 Skin Irrit. — Skin irritation
 Eye Dam. — Serious eye damage
 STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation
 Aquatic Acute — Hazardous to the aquatic environment - acute
 Flam. Liq. — Flammable liquid
 Repr. — Reproductive toxicity
 Acute Tox. — Acute toxicity - inhalation
 Skin Corr. — Skin corrosion

Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (= Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BSEF The International Bromine Council

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved organic carbon

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

EC European Community

ECHA European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

ErCx, EμCx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)

etc. et cetera

EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number

gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

Koc Adsorption coefficient of organic carbon in the soil

Kow octanol-water partition coefficient

IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform Chemical Information Database

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IUPAC International Union for Pure Applied Chemistry

LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

Log Koc Logarithm of adsorption coefficient of organic carbon in the soil

Log Kow, Log Pow Logarithm of octanol-water partition coefficient

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

mg/kg bw mg/kg body weight

mg/kg bw/d, mg/kg bw/day mg/kg body weight/day

mg/kg dw mg/kg dry weight

mg/kg wwt mg/kg wet weight

n.a. not applicable

n.av. not available

n.c. not checked

n.d.a. no data available

NIOSH National Institute for Occupational Safety and Health (USA)

NLP No-longer-Polymer

NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development

org. organic

OSHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million

PVC Polyvinylchloride

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 6/7/8/9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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