

Safety data sheet

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER

Product name

AQUENCE BG 6730

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Relevant identified uses

Dispersion adhesive, coating

Uses advised against

No information.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Supplier

MITOL, tovarna lepil, d.o.o., Sežana
Partizanska c. 78
6210 Sežana, Slovenia
+386 5 73 12 300 (8:00-16:00)
lilijana.kocjan@mitol.si

1.4 EMERGENCY TELEPHONE NUMBER

Emergency

112

Supplier

+386 5 73 12 300 (8:00-16:00)



<https://my.chemius.net/p/7zyqVW/en/pd/en>

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

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

Skin Sens. 1; H317 May cause an allergic skin reaction.
Eye Irrit. 2; H319 Causes serious eye irritation.
Resp. Sens. 1; H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

2.2 LABEL ELEMENTS

Labelling according to Regulation (EC) No 1272/2008 [CLP]



Signal word: DANGER

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
P260 Do not breathe mist/spray.
P280 Wear protective gloves/eye protection.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Contains:

Rubber, natural
1,2-benzisothiazolin-3-one
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)

Special provisions

The product is a treated article. It contains the following preservatives: bronopol, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 1,2-benzisothiazol-3(2H)-one, sorbic acid.

2.3 OTHER HAZARDS

PBT/vPvB

No information.

Endocrine disrupting properties

The mixture does not contain substances that are included in the list of substances with endocrine disrupting properties established in accordance with Article 59 of the REACH Regulation, in a concentration ≥ 0.1 w/w %. The mixture does not contain substances identified as substances with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, in a concentration ≥ 0.1 w/w %.

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Additional information

The substances in the product are not classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

For mixtures see 3.2.

3.2 MIXTURES

Name	CAS EC Index Reach	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
Rubber, natural	9006-04-6 232-689-0 -	1-<5	Skin Sens. 1; H317 Resp. Sens. 1; H334	/	/
sodium C14-17 secondary alkyl sulfonates	97489-15-1 307-055-2 - 01-2119489924- 20	2.5-5	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	Skin Irrit. 2; H315; C ≥ 10% Eye Dam. 1; H318; C ≥ 15% Eye Irrit. 2; H319; 10% ≤ C < 15% oral: ATE = 466 mg/kg bw	/
Poly(oxy-1,2- ethanediyl), α- isotridecyl-ω- hydroxy-, phosphate	73038-25-2 - -	0,1-<1	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 1; H410; M = 1 Aquatic Chronic 2; H411	/	/
Phenol, 4- methyl-, reaction products with dicyclopentadie ne and isobutylene	68610-51-5 271-867-2 - 01-2119496062- 39	0,1-<1	Repr. 2; H361d Aquatic Chronic 4; H413	/	/
ammonia....%	1336-21-6 215-647-6 007-001-01-2 01-2119488876- 14	0,1-<0,25	Skin Corr. 1B; H314 STOT SE 3; H335 Aquatic Acute 1; H400; M = 1	STOT SE 3; H335; C ≥ 5%	B
bronopol	52-51-7 200-143-0 603-085-00-8 01-2119980938- 15	0,01<-0,1	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335 Aquatic Acute 1; H400; M = 10 Aquatic Chronic 2; H411	/	/

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Name	CAS EC Index Reach	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
1,2-benzisothiazolin-3-one	2634-33-5 220-120-9 613-088-00-6	0,005-<0,05	Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Dam. 1; H318 Acute Tox. 2; H330 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	Skin Sens. 1; H317; C ≥ 0.05%	/
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	55965-84-9 - 613-167-00-5 01-2120764691-48	0,0001-<0,0015	Acute Tox. 3; H301 Acute Tox. 2; H310 Skin Corr. 1C; H314 Skin Sens. 1A; H317 Eye Dam. 1; H318 Acute Tox. 2; H330 Aquatic Acute 1; H400; M = 100 Aquatic Chronic 1; H410; M = 100 EUH071	Skin Corr. 1C; H314; C ≥ 0.6% Skin Irrit. 2; H315; 0.06% ≤ C < 0.6% Skin Sens. 1; H317; C ≥ 0.0015% Eye Dam. 1; H318; C ≥ 0.6% Eye Irrit. 2; H319; 0.06% ≤ C < 0.6%	/

Notes for substances

B

Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations.

In Part 3 entries with Note B have a general designation of the following type: "nitric acid ... %".

In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

General notes

When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician. Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. Symptoms of intoxication may appear later.

Following inhalation

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Remove patient to fresh air - move out of dangerous area. Victim should rest in a warm place. Obtain professional medical help! In case of inhalation, symptoms may be delayed.

Following skin contact

Take off all contaminated clothing. Wash affected skin areas immediately with plenty of water and soap. If symptoms develop and persist, seek medical attention.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical help.

Following ingestion

Do not induce vomiting! Rinse mouth with water and drink water. Consult a physician. Show the physician the safety data sheet or label.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Following inhalation

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing, sneezing, nasal discharge, labored breathing.

Following skin contact

May cause sensitisation by skin contact (symptoms: itching, redness, rashes). Contact with skin may cause irritation (redness, itching).

Following eye contact

Redness, tearing, pain.

Following ingestion

May cause nausea/vomiting and diarrhea. May cause abdominal discomfort. Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No information.

SECTION 5: FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

Unsuitable extinguishing media

Full water jet.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke.

5.3 ADVICE FOR FIREFIGHTERS

Protective actions

In case of fire evacuate the area. In case of fire or heating do not breathe fumes/vapours.

Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

Additional information

No information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

For non-emergency personnel

Protective equipment

Use personal protective equipment (Section 8).

Precautionary measures

Ensure adequate ventilation.

Emergency procedures

Danger of slipping on spilled product. Evacuate personnel. Prevent access to unprotected personnel. Avoid contact with skin and eyes. Do not breathe vapour or mist.

For emergency responders

High risk of slipping due to leakage/spillage of product. Use personal protective equipment.

6.2 ENVIRONMENTAL PRECAUTIONS

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large entry into water or ground occurs, inform responsible authorities.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP



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For containment

Stem the spill if this does not pose risks.

For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Dispose in accordance with applicable regulations (see Section 13).

Other information

No information.

6.4 REFERENCE TO OTHER SECTIONS

See also sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Protective measures

Measures to prevent fire

Ensure adequate ventilation.

Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

Measures to protect the environment

Avoid release to the environment.

Other measures

No information.

Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin and eyes. Do not breathe vapours/mist. Wear suitable protective equipment; see Section 8. Remove contaminated clothes and wash them before reuse. Consider measures required in Section 8 of this safety data sheet.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Technical measures and storage conditions

Store in accordance with local regulations. Keep in cool and well ventilated area. Keep away from food, drink and animal feeding stuffs. Protect against contamination. Protect from cold (prevent freezing). Do not close containers gastight. Store between +15°C to 35°C.

Packaging materials

The original container of producer.

Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

Storage class

No information.

Further information on storage conditions

No information.

7.3 SPECIFIC END USE(S)

Recommendations

No information.

Industrial sector specific solutions

No information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Occupational Exposure limit values

Name	mg/m ³	ml/m ³	Short-term value mg/m ³	Short-term value ml/m ³	Remark	Biological Tolerance Values
Ammonia (1336-21-6)	18	25	25	35	/	/

Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

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DNEL/DMEL values

For product

No information.

For components

Name	Type	Exposure route	exp. frequency	Remark	value
bronopol	Worker	inhalation	long term systemic effects	/	4.1 mg/m ³
bronopol	Worker	inhalation	short term systemic effects	/	12.3 mg/m ³
bronopol	Worker	inhalation	long term local effects	/	4.2 mg/m ³
bronopol	Worker	inhalation	short term local effects	/	4.2 mg/m ³
bronopol	Worker	dermal	long term systemic effects	/	2.3 mg/kg bw/day
bronopol	Worker	dermal	short term systemic effects	/	7 mg/kg bw/day
bronopol	Worker	dermal	long term local effects	/	13 µg/cm ²
bronopol	Worker	dermal	short term local effects	/	13 µg/cm ²
bronopol	Consumer	inhalation	long term systemic effects	/	1.2 mg/m ³
bronopol	Consumer	inhalation	short term systemic effects	/	3.7 mg/m ³
bronopol	Consumer	inhalation	long term local effects	/	1.3 mg/m ³
bronopol	Consumer	inhalation	short term local effects	/	1.3 mg/m ³
bronopol	Consumer	dermal	long term systemic effects	/	1.4 mg/kg bw/day
bronopol	Consumer	dermal	short term systemic effects	/	4.2 mg/kg bw/day
bronopol	Consumer	dermal	long term local effects	/	8 µg/cm ²
bronopol	Consumer	dermal	short term local effects	/	8 µg/cm ²
bronopol	Consumer	oral	long term systemic effects	/	0.35 mg/kg bw/day
bronopol	Consumer	oral	short term systemic effects	/	1.1 mg/kg bw/day
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	Worker	inhalation	long term systemic effects	/	0.29 mg/m ³

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Name	Type	Exposure route	exp. frequency	Remark	value
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	Worker	dermal	long term systemic effects	/	0.42 mg/kg bw/day
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	Consumer	inhalation	long term systemic effects	/	0.07 mg/m ³
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	Consumer	dermal	long term systemic effects	/	0.21 mg/kg bw/day
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	Consumer	oral	long term systemic effects	/	0.04 mg/kg bw/day
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	Worker	inhalation	long term local effects	/	0.02 mg/m ³
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	Worker	inhalation	short term local effects	/	0.04 mg/m ³
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	Consumer	inhalation	long term local effects	/	0.02 mg/m ³

Safety data sheet

Name	Type	Exposure route	exp. frequency	Remark	value
Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H- isothiazol-3-one (EINECS 220-239-6) (3:1)	Consumer	inhalation	short term local effects	/	0.04 mg/m ³
Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H- isothiazol-3-one (EINECS 220-239-6) (3:1)	Consumer	oral	long term systemic effects	/	0.09 mg/kg bw/day
Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H- isothiazol-3-one (EINECS 220-239-6) (3:1)	Consumer	oral	short term systemic effects	/	0.11 mg/kg bw/day
1,2-benzisothiazolin-3-one	Worker	inhalation	long term systemic effects	/	6.81 mg/m ³
1,2-benzisothiazolin-3-one	Worker	dermal	long term systemic effects	/	0.966 mg/kg bw/day
1,2-benzisothiazolin-3-one	Consumer	inhalation	long term systemic effects	/	1.2 mg/m ³
1,2-benzisothiazolin-3-one	Consumer	dermal	long term systemic effects	/	0.345 mg/kg bw/day
sodium C14-17 secondary alkyl sulfonates	Worker	inhalation	long term systemic effects	/	35 mg/m ³
sodium C14-17 secondary alkyl sulfonates	Worker	dermal	long term systemic effects	/	5 mg/kg bw/day
sodium C14-17 secondary alkyl sulfonates	Worker	dermal	long term local effects	/	2.8 mg/cm ²
sodium C14-17 secondary alkyl sulfonates	Worker	dermal	short term local effects	/	2.8 mg/cm ²
sodium C14-17 secondary alkyl sulfonates	Consumer	inhalation	long term systemic effects	/	12.4 mg/m ³

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Name	Type	Exposure route	exp. frequency	Remark	value
sodium C14-17 secondary alkyl sulfonates	Consumer	dermal	long term systemic effects	/	3.57 mg/kg bw/day
sodium C14-17 secondary alkyl sulfonates	Consumer	dermal	long term local effects	/	2.8 mg/cm ²
sodium C14-17 secondary alkyl sulfonates	Consumer	dermal	short term local effects	/	2.8 mg/cm ²
sodium C14-17 secondary alkyl sulfonates	Consumer	oral	long term systemic effects	/	7.1 mg/kg bw/day

PNEC values

For product

No information.

For components

Name	Exposure route	Remark	value
bronopol	fresh water	/	0.01 mg/L
bronopol	water, intermittent release	fresh water	0.003 mg/L
bronopol	marine water	/	0.001 mg/L
bronopol	water treatment plant	/	0.43 mg/L
bronopol	fresh water sediment	dry weight	0.041 mg/kg
bronopol	marine water sediment	dry weight	0.003 mg/kg
bronopol	soil	dry weight	0.5 mg/kg
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	fresh water	/	0.01 mg/L
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	water, intermittent release	/	0.002 mg/L
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	marine water	/	0.002 mg/L
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	water, marine, intermittent release	/	0.002 mg/L
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	water treatment plant	/	100 mg/L
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	fresh water sediment	dry weight	426.26 mg/kg

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Name	Exposure route	Remark	value
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	marine water sediment	dry weight	85.25 mg/kg
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	soil	dry weight	85.16 mg/kg
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	secondary poisoning	food	1.7 mg/kg
Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H- isothiazol-3-one (EINECS 220-239-6) (3:1)	fresh water	/	3.39 µg/l
Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H- isothiazol-3-one (EINECS 220-239-6) (3:1)	water, intermittent release	fresh water	3.39 µg/l
Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H- isothiazol-3-one (EINECS 220-239-6) (3:1)	marine water	/	3.39 µg/l
Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H- isothiazol-3-one (EINECS 220-239-6) (3:1)	water, intermittent release	marine water	3.39 µg/l
Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H- isothiazol-3-one (EINECS 220-239-6) (3:1)	water treatment plant	/	0.23 mg/L
Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H- isothiazol-3-one (EINECS 220-239-6) (3:1)	fresh water sediment	dry weight	0.027 mg/kg
Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H- isothiazol-3-one (EINECS 220-239-6) (3:1)	marine water sediment	dry weight	0.027 mg/kg

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Name	Exposure route	Remark	value
Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H- isothiazol-3-one (EINECS 220-239-6) (3:1)	soil	dry weight	0.01 mg/kg
1,2-benzisothiazolin-3-one	fresh water	/	4.03 µg/l
1,2-benzisothiazolin-3-one	water, intermittent release	fresh water	1.1 µg/l
1,2-benzisothiazolin-3-one	marine water	/	0.403 µg/l
1,2-benzisothiazolin-3-one	water treatment plant	/	1.03 mg/L
1,2-benzisothiazolin-3-one	fresh water sediment	dry weight	49.9 µg/kg
1,2-benzisothiazolin-3-one	marine water sediment	dry weight	4.99 µg/kg
1,2-benzisothiazolin-3-one	soil	dry weight	3 mg/kg
sodium C14-17 secondary alkyl sulfonates	fresh water	/	0.06 mg/L
sodium C14-17 secondary alkyl sulfonates	water, intermittent release	/	0.06 mg/L
sodium C14-17 secondary alkyl sulfonates	marine water	/	0.006 mg/L
sodium C14-17 secondary alkyl sulfonates	water treatment plant	/	600 mg/L
sodium C14-17 secondary alkyl sulfonates	fresh water sediment	dry weight	9.4 mg/kg
sodium C14-17 secondary alkyl sulfonates	marine water sediment	dry weight	0.94 mg/kg
sodium C14-17 secondary alkyl sulfonates	soil	dry weight	9.4 mg/kg
sodium C14-17 secondary alkyl sulfonates	secondary poisoning	food	53.3 mg/kg

8.2 EXPOSURE CONTROLS

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with eyes and skin. Do not breathe vapours/aerosols. Personal protective equipment must be CE marked, showing that it complies with applicable standards. All personal protective equipment must comply with the relevant standards and must be maintained to ensure its expected function. Workers must be trained on the proper use and maintenance of personal protective equipment.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration.

Personal protective equipment

Eye and face protection

Tight fitting protective goggles (EN 166).

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Hand protection

Protective gloves (EN 374). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Consider the fact that in practice, the daily amount of use of the protective gloves against chemicals due to numerous factors (e.g. temperature) is significantly less than the permeability time, defined in the BS EN ISO 374.

Appropriate materials

Material	Thickness	Penetration Time	Remark
Nitrile	0.4 mm	30	Short term use.
Nitrile	0.4 mm	480	Long term use.

Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345). Protective work clothing resistant to liquid chemicals (BS EN 14605:2005+A1:2009). Choose body protection according to the activity and possible exposure.

Respiratory protection

In case of insufficient ventilation wear a mask with filter ABEK-P2 (EN 14387). 'High/elevated concentrations' means that the occupational exposure limit values have been exceeded.

Thermal hazards

No information.

Environmental exposure controls

Substance/mixture related measures to prevent exposure

No information.

Instruction measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

Do not allow product to reach drains, sewage systems or ground water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Important health, safety and environmental information

Physical state	liquid
Shape	No information.
Colour	yellow
Odour	characteristic
Odour threshold	No information.
Melting/freezing point	0 °C
Boiling point or initial boiling point and boiling range	100 °C at 1013 hPa
Flammability (solid, gas)	No information.
Explosion limits (vol%)	No information.
Flash point	> 100 °C
Auto-ignition temperature	No information.
Decomposition temperature	No information.
pH	7 — 9 at 20 °C
Viscosity (dynamic)	16500 — 36500 mPas (Brookfield; RVT; 23 °C (73.4 °F); Rot. freq.: 20 min ⁻¹ ; spindle Nr.6; conc.: 100 %)
Viscosity (kinematic)	> 20.5 mm ² /s
Solubility (Water)	miscible
Partition coefficient n-octanol/water (log value)	No information.
Vapour pressure	24 hPa at 20 °C
Density	1 — 1.1 g/cm ³ at 20 °C

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Relative vapour density	> 1
Particle characteristics	No information.

9.2 OTHER INFORMATION

Information with regard to physical hazard classes

No information.

Other safety characteristics

Weight organic solvents	0 %
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SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

Stable under recommended transport or storage conditions.

10.2 CHEMICAL STABILITY

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

The product is stable under recommended storage and handling conditions.

10.4 CONDITIONS TO AVOID

No special precautions required. Consider the directions for use and storage.

10.5 INCOMPATIBLE MATERIALS

Follow the general rule of incompatible chemicals.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released. Acetic acid.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) NO 1272/2008

(a) Acute toxicity

For components

Name	Exposure route	Type	Species	Time	value	Method	Remark
ammonia.... %	inhalation	ATE	/	/	6570 ppm	/	/
bronopol	oral	LD ₅₀	rat	/	193 - 211 mg/kg	/	/
bronopol	oral	ATE	/	/	193 mg/kg	/	/
bronopol	dermal	LD ₅₀	rat	/	1600 mg/kg	/	/
Rubber, natural	oral	LD ₅₀	rat	/	2043 - 2210 mg/kg	/	/
Phenol, 4- methyl- reaction products with dicyclopent adiene and isobutylene	oral	LD ₅₀	rat	/	> 5000 mg/kg	OECD 401	/

Safety data sheet

Name	Exposure route	Type	Species	Time	value	Method	Remark
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	dermal	LD ₅₀	rat	/	> 2000 mg/kg	OECD 402	/
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	oral	LD ₅₀	rat	/	66 mg/kg	OECD 401	/
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	dermal	LD ₅₀	rabbit	/	87.12 mg/kg	OECD 402	/
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	inhalation (dusts/mists)	LC ₅₀	rat	4 h	0.171 mg/l	OECD 403 OECD 403	/

Safety data sheet

Name	Exposure route	Type	Species	Time	value	Method	Remark
Poly(oxy-1,2-ethanediyl), α -isotridecyl- ω -hydroxy-, phosphate	oral	LD ₅₀	rat	/	> 2000 mg/kg	/	/
1,2-benzisothiazolin-3-one	oral	LD ₅₀	rat	/	1193 mg/kg	/	/
1,2-benzisothiazolin-3-one	dermal	LD ₅₀	rat	/	> 2000 mg/kg	OECD 402	/
1,2-benzisothiazolin-3-one	inhalation (dusts/mists)	LC ₅₀	rat	4 h	0.4 mg/l	OECD 403 OECD 403	/
sodium C14-17 secondary alkyl sulfonates	oral	ATE	/	/	466 mg/kg	/	/

(b) Skin corrosion/irritation

For components

Name	Species	Time	result	Method	Remark
ammonia....%	rabbit	/	Corrosive	OECD 404	/
bronopol	rabbit	4 h	Irritating.	OECD 404	/
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	rabbit	4 h	Non-irritant.	EPA	/
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	rabbit	4 h	Corrosive.	OECD 404	/
1,2-benzisothiazolin-3-one	rabbit	4 h	Moderately irritating.	EPA OPP 81-5	/
sodium C14-17 secondary alkyl sulfonates	rabbit	4 h	Irritating.	OECD 404	/
sodium C14-17 secondary alkyl sulfonates	human	/	Non-irritant.	/	/

(c) Serious eye damage/irritation

Safety data sheet

For components

Name	Exposure route	Species	Time	result	Method	Remark
ammonia....%	/	rabbit	/	Corrosive.	/	/
bronopol	/	rabbit	/	Severe irritation.	/	/
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	/	rabbit	24 h	Mild irritating.	EPA	/
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	/	rabbit	/	It causes serious eye damage.	/	/
1,2-benzisothiazolin-3-one	/	rabbit	48 h	Severe irritation.	EPA OPP 81-4	/
sodium C14-17 secondary alkyl sulfonates	/	rabbit	/	Corrosive	OECD 405	/

Additional information

Causes serious eye irritation.

(d) Respiratory or skin sensitisation

For components

Name	Exposure route	Species	Time	result	Method	Remark
ammonia....%	-	guinea pig	/	Non sensitising.	/	/
bronopol	dermal	guinea pig	/	Non sensitising.	OECD 406	maximisation test
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	dermal	guinea pig	/	Non sensitising.	OECD 406	maximisation test

Safety data sheet

Name	Exposure route	Species	Time	result	Method	Remark
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	dermal	guinea pig	/	Sensitizing.	OECD 406	/
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	dermal	mouse	/	Sensitizing.	/	LLNA (Local Lymph Node Assay)
1,2-benzisothiazol in-3-one	dermal	guinea pig	/	Sensitizing.	Magnusson & Kligman test	maximisation test
1,2-benzisothiazol in-3-one	dermal	mouse	/	Sensitizing.	OECD 429	/
sodium C14-17 secondary alkyl sulfonates	dermal	guinea pig	/	Non sensitising.	OECD 406	/

Additional information

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

(e) (Germ cell) mutagenicity

For components

Name	Type	Species	Time	result	Method	Remark
ammonia....%	in-vitro mutagenicity	Bacteria	/	Negative.	OECD 471	Ames test
ammonia....%	in-vivo mutagenicity	mouse	/	Negative.	OECD 474	/
bronopol	in-vitro mutagenicity	/	/	Negative with metabolic activation, negative without metabolic activation.	/	Ames test

Safety data sheet

Name	Type	Species	Time	result	Method	Remark
bronopol	in-vitro mutagenicity	Cell: Mammalian-Animal	/	Positive with metabolic activation, positive without metabolic activation.	Chromosomal aberration test	/
bronopol	in-vivo mutagenicity	mouse	/	Negative.	OECD 474	/
bronopol	in-vivo mutagenicity	rat	/	Negative.	OECD 486	/
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	in-vitro mutagenicity	Bacteria	/	Negative with metabolic activation, negative without metabolic activation.	OECD 471	Ames test
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	in-vitro mutagenicity	Cell: Mammalian-Animal	/	Negative with metabolic activation, negative without metabolic activation.	OECD 473	/
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	in-vitro mutagenicity	Cell: Mammalian-Animal	/	Negative with metabolic activation, negative without metabolic activation.	OECD 476	/
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	in-vitro mutagenicity	Bacteria	/	Ambiguous.	OECD 471	/
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	in-vitro mutagenicity	Cell: Mammalian-Animal	/	Positive with metabolic activation, positive without metabolic activation.	EPA OPP 84-2	/

Safety data sheet

Name	Type	Species	Time	result	Method	Remark
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	in-vitro mutagenicity	Cell: Mammalian-Animal	/	Positive with metabolic activation, positive without metabolic activation.	OECD 476	/
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	in-vitro mutagenicity	Cell: Mammalian-Animal	/	Negative.	OECD 482	/
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	in-vivo mutagenicity	mouse	/	Negative.	OECD 474	/
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	in-vivo mutagenicity	mouse	/	Negative.	OECD 475	/
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	in-vivo mutagenicity	<i>Drosophila melanogaster</i>	/	Negative.	OECD 477	/

Safety data sheet

Name	Type	Species	Time	result	Method	Remark
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	in-vivo mutagenicity	rat	/	Negative.	OECD 486	/
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	in-vivo mutagenicity	rat	/	Negative.	EPA OPP 84-2	/
1,2-benzisothiazol in-3-one	in-vitro mutagenicity	Bacteria	/	Negative with metabolic activation, negative without metabolic activation.	OECD 471	Ames test
1,2-benzisothiazol in-3-one	in-vitro mutagenicity	Cell: Mammalian-Animal	/	Negative with metabolic activation, negative without metabolic activation.	OECD 476	/
sodium C14-17 secondary alkyl sulfonates	in-vitro mutagenicity	/	/	Negative.	OECD 471	/
sodium C14-17 secondary alkyl sulfonates	in-vitro mutagenicity	/	/	Negative.	OECD 476	/
sodium C14-17 secondary alkyl sulfonates	in-vivo mutagenicity	mouse	/	Negative.	OECD 474	/

(f) Carcinogenicity

For components

Name	Exposure route	Type	Species	Time	value	result	Method	Remark
ammonia... .%	oral	/	rat	104 weeks	/	Negative	OECD 453	daily

Safety data sheet

Name	Exposure route	Type	Species	Time	value	result	Method	Remark
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	oral	/	rat	2 years	/	Negative	OECD 453	daily
sodium C14-17 secondary alkyl sulfonates	oral	/	rat	2 years	/	Negative	/	/

(g) Reproductive toxicity

For components

Name	Reproductive toxicity type	Type	Species	Time	value	result	Method	Remark
ammonia...	Reproductive toxicity	NOAEL (P)	rat	/	408 mg/kg	/	OECD 422	/
bronopol	Reproductive toxicity	NOAEL (P)	rat	/	> 40 mg/kg	/	/	oral
bronopol	Reproductive toxicity	NOAEL (F1)	rat	/	> 40 mg/kg	/	/	oral
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	Reproductive toxicity	NOAEL (P)	rat	/	30 ppm	/	OECD 416	oral

Safety data sheet

Name	Reproductive toxicity type	Type	Species	Time	value	result	Method	Remark
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	Reproductive toxicity	NOAEL (F1)	rat	/	300 ppm	/	OECD 416	oral
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	Reproductive toxicity	NOAEL (F2)	rat	/	300 ppm	/	OECD 416	oral
sodium C14-17 secondary alkyl sulfonates	Reproductive toxicity	NOAEL (P)	rat (male/female)	/	10000 ppm	/	/	oral
sodium C14-17 secondary alkyl sulfonates	Reproductive toxicity	NOAEL (F1)	rat (male/female)	/	10000 ppm	/	/	oral

Summary of evaluation of the CMR properties

No information.

(h) STOT-single exposure

No information.

(i) STOT-repeated exposure

For components

Name	Exposure route	Type	Species	Time	Exposure organ	value	result	Method	Remark
bronopol	oral	NOAEL	rat	104 weeks	/	7 mg/kg	/	/	daily

Safety data sheet

Name	Exposure route	Type	Species	Time	Exposure organ	value	result	Method	Remark
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	oral	NOAEL	rat	90 days	/	/	500 ppm	/	OECD 408 daily
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	oral	NOAEL	rat	90 days	/	/	16.3 mg/kg	/	OECD 408 daily
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	inhalation (aerosol)	NOAEL	rat	90 days	/	/	0.34 mg/m ³	/	OECD 413 6 h per day, 5 days per week

Safety data sheet

Name	Exposure route	Type	Species	Time	Exposure organ		value	result	Method	Remark
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	dermal	NOAEL	Rat / Rabbit	90 days	sub-chronic	/	2.625 mg/kg	/	EPA OPP 82-3	6 h/day
1,2-benzisothiazolin-3-one	oral	NOAEL	rat	90 days	/	/	10 mg/kg	/	OECD 408	/
sodium C14-17 secondary alkyl sulfonates	oral	NOAEL	rat (male/female)	52 weeks	/	/	4000 ppm	/	/	/

(j) Aspiration hazard

No information.

Symptoms related to the physical, chemical and toxicological characteristics

No information.

Interactive effects

No information.

11.2 INFORMATION ON OTHER HAZARDS

Endocrine disrupting properties

For product

The mixture does not contain substances that are included in the list of substances with endocrine disrupting properties established in accordance with Article 59 of the REACH Regulation, in a concentration ≥ 0.1 w/w %. The mixture does not contain substances identified as substances with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, in a concentration ≥ 0.1 w/w %.

Other information

No information.

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY

Acute (short-term) toxicity

For components

Name	Type	value	Exposure time	Species	organism	Method	Remark
ammonia.... %	LC ₅₀	0.16 - 1.1 mg/L	96 h	fish	Salmo gairdneri	OECD 203 OECD 203	/

Safety data sheet

Name	Type	value	Exposure time	Species	organism	Method	Remark
ammonia.... %	EC ₅₀	25.4 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	/
ammonia.... %	EC ₅₀	> 1000 mg/L	72 h	algae	<i>Skeletonema costatum</i>	ISO 10253 ISO 10253	/
ammonia.... %	NOEC	1000 mg/L	72 h	algae	<i>Skeletonema costatum</i>	ISO 10253	/
bronopol	LC ₅₀	41 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	OECD 203	/
bronopol	EC ₅₀	1.4 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	/
bronopol	EC ₅₀	0.37 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	/
bronopol	EC ₅₀	43 mg/L	3 h	microorganisms	Activated sludge	OECD 209 OECD 209	/
Rubber, natural	LC ₅₀	> 10000 mg/L	96 h	fish	<i>Brachydanio rerio</i>	OECD 203	/
Rubber, natural	EC ₅₀	> 10000 mg/L	/	microorganisms	Activated sludge	OECD 209	/
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	LC ₅₀	0.22 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	OECD 203	/
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	EC ₅₀	0.12 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	/

Safety data sheet

Name	Type	value	Exposure time	Species	organism	Method	Remark
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	EC ₅₀	0.0052 mg/L	48 h	algae	<i>Skeletonema costatum</i>	OECD 201	/
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	NOEC	0.00064 mg/L	48 h	algae	<i>Skeletonema costatum</i>	OECD 201 OECD 201	/
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	EC ₂₀	0.97 mg/L	3 h	microorganism	Activated sludge	OECD 209 OECD 209	/
1,2-benzisothiazolin-3-one	LC ₅₀	2.15 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	OECD 203	/
1,2-benzisothiazolin-3-one	EC ₅₀	2.9 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	/
1,2-benzisothiazolin-3-one	EC ₅₀	0.11 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	/
1,2-benzisothiazolin-3-one	NOEC	0.0403 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201 OECD 201	/

Safety data sheet

Name	Type	value	Exposure time	Species	organism	Method	Remark
1,2-benzisothiazolin-3-one	EC ₅₀	23 mg/L	3 h	microorganisms	Activated sludge	OECD 209 OECD 209	/
sodium C14-17 secondary alkyl sulfonates	LC ₅₀	6.2 mg/L	48 h	fish	<i>Leuciscus idus</i>	DIN 38412-15	/
sodium C14-17 secondary alkyl sulfonates	EC ₅₀	4.9 mg/L	24 h	crustacea	<i>Daphnia magna</i>	EU Method C.2	/
sodium C14-17 secondary alkyl sulfonates	EC ₅₀	1899.5 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	OECD 201	/
sodium C14-17 secondary alkyl sulfonates	NOEC	6.1 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	OECD 201	/
sodium C14-17 secondary alkyl sulfonates	EC ₁₀	390 mg/L	16 h	microorganisms	<i>Pseudomonas putida</i>	DIN 38412-8	/

Chronic (long-term) toxicity

For components

Name	Type	value	Exposure time	Species	organism	Method	Remark
ammonia.... %	NOEC	< 0.048 mg/l	31 days	fish	<i>Ictalurus punctatus</i>	OECD 215 OECD 215	/
ammonia.... %	NOEC	0.79 mg/l	96 h	crustacea	<i>Daphnia magna</i>	EPA OPPTS 850.1300	/
bronopol	NOEC	21.5 mg/l	30 days	fish	<i>Oncorhynchus mykiss</i>	OECD 210 OECD 210	/
bronopol	NOEC	0.27 mg/l	21 days	crustacea	<i>Daphnia magna</i>	OECD 211	/
bronopol	NOEC	0.1 mg/l	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	/

Safety data sheet

Name	Type	value	Exposure time	Species	organism	Method	Remark
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	NOEC	0.098 mg/l	28 days	fish	<i>Oncorhynchus mykiss</i>	OECD 210	/
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	NOEC	0.0036 mg/l	21 days	crustacea	<i>Daphnia magna</i>	OECD 211	/
1,2-benzisothiazolin-3-one	NOEC	0.21 mg/l	30 days	fish	<i>Oncorhynchus mykiss</i>	OECD 215	/
1,2-benzisothiazolin-3-one	NOEC	1.2 mg/l	21 days	crustacea	<i>Daphnia magna</i>	OECD 211	/
sodium C14-17 secondary alkyl sulfonates	NOEC	0.85 mg/l	28 days	fish	<i>Oncorhynchus mykiss</i>	OECD 204	/
sodium C14-17 secondary alkyl sulfonates	NOEC	0.61 mg/l	/	crustacea	<i>Daphnia magna</i>	OECD 211	/

12.2 PERSISTENCE AND DEGRADABILITY

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

For components

Name	Type	Rate	Time	Evaluation	Method	Remark
bronopol	aerobic	70 - 80 %	28 days	readily biodegradable	OECD 301 B	/

Safety data sheet

Name	Type	Rate	Time	Evaluation	Method	Remark
bronopol	biodegradability	50 %	45 days	/	OECD 302 B	/
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	aerobic	1 %	28 days	not readily biodegradable	OECD 302 B	/
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	aerobic	> 60 %	28 days	/	OECD 301 D	/
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	aerobic	100 %	28 days	/	OECD 302 B	/
1,2-benzisothiazolin-3-one	aerobic	42.1 %	28 days	not readily biodegradable	/	/
sodium C14-17 secondary alkyl sulfonates	biodegradation	98 %	30 days	readily biodegradable	EU C.4-E	/

12.3 BIOACCUMULATIVE POTENTIAL

Partition coefficient n-octanol/water (log value)

For components

Name	Media	value	Temperature °C	pH	Concentration	Method
ammonia....%	Octanol-water (log Pow)	-1.14	/	/	/	EU Method A.8
bronopol	Octanol-water (log Pow)	0.22	24	/	/	EU Method A.8
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	Octanol-water (log Pow)	7.56	30	/	/	OECD 117

Safety data sheet

Name	Media	value	Temperature °C	pH	Concentration	Method
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	Octanol-water (log Pow)	-0.71 - 0.75	20	/	/	OECD 117
1,2-benzisothiazol in-3-one	Octanol-water (log Pow)	0.7	20	/	/	EU Method A.8
sodium C14-17 secondary alkyl sulfonates	Octanol-water (log Pow)	0.2	20	/	/	EU A.8

Bioconcentration factor (BCF)

For components

Name	Species	organism	value	Duration	Evaluation	Method	Remark
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (3:1)	BCF	/	3.6	/	/	/	QSAR
1,2-benzisothiazolin-3-one	BCF	/	6.62	56 days	/	/	/

12.4 MOBILITY IN SOIL

Known or predicted distribution to environmental compartments

No information.

Surface tension

No information.

Adsorption/Desorption

No information.

12.5 RESULTS OF PBT AND VPVB ASSESSMENT

The components in this product do not meet the criteria for classification as PBT or vPvB.

12.6 ENDOCRINE DISRUPTING PROPERTIES

For product

The mixture does not contain substances that are included in the list of substances with endocrine disrupting properties established in accordance with Article 59 of the REACH Regulation, in a concentration ≥ 0.1 w/w %. The mixture does not contain substances identified as substances with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, in a concentration ≥ 0.1 w/w %.

12.7 OTHER ADVERSE EFFECTS

Safety data sheet

No information.

12.8 ADDITIONAL INFORMATION

For product

Do not allow to reach ground water, water courses or sewage system.

For components

1,2-benzisothiazolin-3-one

This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Product / Packaging disposal

Waste chemical

Dispose of in accordance with applicable waste disposal regulation. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

Waste codes / waste designations according to LoW

08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances

Packaging

Dispose of in accordance with applicable waste disposal regulation. Deliver completely emptied containers to approved waste disposal authorities.

Waste codes / waste designations according to LoW

No information.

Waste treatment-relevant information

No information.

Sewage disposal-relevant information

No information.

Other disposal recommendations

No information.

SECTION 14: TRANSPORT INFORMATION

ADR/RID	IMDG	IATA	ADN
14.1 UN number or ID number			
Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.
14.2 UN proper shipping name			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.3 Transport hazard class(es)			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.4 Packing group			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.5 Environmental hazards			
NO	NO	NO	NO
14.6 Special precautions for user			
Limited quantities Not given/not applicable	Limited quantities Not given/not applicable		Limited quantities Not given/not applicable
14.7 Maritime transport in bulk according to IMO instruments			



Safety data sheet

ADR/RID	IMDG	IATA	ADN
	Not given/not applicable		

SECTION 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

not applicable

Ingredients according to Regulation (EC) No 648/2004 on detergents

No information.

Special instructions

No information.

15.2 CHEMICAL SAFETY ASSESSMENT

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

SECTION 16: OTHER INFORMATION

Indication of changes

3.2 Mixtures 8.1 Control parameters 9.1 Information on basic physical and chemical properties 9.2 Other information 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 12.1 Toxicity 12.2 Persistence and degradability 12.3 Bioaccumulative potential 13.1 Waste treatment methods 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Key literature references and sources for data

No information.

Abbreviations and acronyms

Safety data sheet

ATE - Acute Toxicity Estimate

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CEN - European Committee for Standardisation

C&L - Classification and Labelling

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CAS# - Chemical Abstracts Service number

CMR - Carcinogen, Mutagen, or Reproductive Toxicant

CSA - Chemical Safety Assessment

CSR - Chemical Safety Report

DMEL - Derived Minimal Effect Level

DNEL - Derived No Effect Level

DPD - Dangerous Preparations Directive 1999/45/EC

DSD - Dangerous Substances Directive 67/548/EEC

DU - Downstream User

EC - European Community

ECHA - European Chemicals Agency

EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)

EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)

EEC - European Economic Community

EINECS - European Inventory of Existing Commercial Substances

ELINCS - European List of notified Chemical Substances

EN - European Standard

EQS - Environmental Quality Standard

EU - European Union

Euphrac - European Phrase Catalogue

EWG - European Waste Catalogue (replaced by LoW – see below)

GES - Generic Exposure Scenario

GHS - Globally Harmonized System

IATA - International Air Transport Association

ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG - International Maritime Dangerous Goods

IMSBC - International Maritime Solid Bulk Cargoes

IT - Information Technology

IUCLID - International Uniform Chemical Information Database

IUPAC - International Union for Pure Applied Chemistry

JRC - Joint Research Centre

Kow - octanol-water partition coefficient

LC50 - Lethal Concentration to 50 % of a test population

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

LE - Legal Entity

LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)

LR - Lead Registrant

M/I - Manufacturer / Importer

MS - Member States

MSDS - Material Safety Data Sheet

OC - Operational Conditions

OECD - Organization for Economic Co-operation and Development

OEL - Occupational Exposure Limit

OJ - Official Journal

OR - Only Representative

OSHA - European Agency for Safety and Health at work

PBT - Persistent, Bioaccumulative and Toxic substance

PEC - Predicted Effect Concentration

PNEC(s) - Predicted No Effect Concentration(s)

PPE - Personal Protection Equipment

(Q)SAR - Qualitative Structure Activity Relationship

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

RIP - REACH Implementation Project

RMM - Risk Management Measure

SCBA - Self-Contained Breathing Apparatus

SDS - Safety data sheet

SIEF - Substance Information Exchange Forum

SME - Small and Medium sized Enterprises

STOT - Specific Target Organ Toxicity

(STOT) RE - Repeated Exposure

(STOT) SE - Single Exposure

SVHC - Substances of Very High Concern

UN - United Nations

vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

Safety data sheet

H301 Toxic if swallowed.
H302 Harmful if swallowed.
H310 Fatal in contact with skin.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H361d Suspected of damaging the unborn child.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.
EUH071 Corrosive to the respiratory tract.