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| SAFETY DATA SHEET | Revision Date: 03.01.2023 |
| | Print Date: 05.04.2023 |
| | SDS Number: R0717407 |
| ROKONSAL KS-4 831525 | Version: 4.0 |

Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS_DE

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

1.1 Product identifier

Trade name : ROKONSAL KS-4

Germany Registration number 5648694

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

Recommended use : Preservative
Cosmetics

1.3 Details of the supplier of the safety data sheet

Ashland
P.O. Box 8619
NL3009 AP, Rotterdam
Netherlands
+31 10 497 5000 (in the Netherlands), or
contact your local CSR contact person

EHSProductSafety@ashland.com

1.4 Emergency telephone

001-800-274-5263/001-859-357-3564, or contact
your local emergency telephone number at 112

Product Information

+31 10 497 5000 (in the Netherlands), or contact
your local CSR contact person

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin corrosion, Sub-category 1C

H314: Causes severe skin burns and eye damage.

Serious eye damage, Category 1

H318: Causes serious eye damage.

Skin sensitization, Category 1

H317: May cause an allergic skin reaction.

Short-term (acute) aquatic hazard,
Category 1

H400: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard,
Category 1

H410: Very toxic to aquatic life with long lasting
effects.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)



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Hazard pictograms :



Signal Word :

Danger

Hazard Statements :

H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements :

Prevention:

P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
 P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
 P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
 P391 Collect spillage.

Hazardous ingredients which must be listed on the label:

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1);

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 3: Composition/information on ingredients
3.2 Mixtures
Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|---|--|--|--------------------------|
| benzyl alcohol | 100-51-6 202-859-9 603-057-00-5 01-2119492630-38-xxxx | Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2; H319 | >= 10 - < 15 |
| mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1); | 55965-84-9 01-2120764691-48-0002 | Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H310 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100 specific concentration limit Skin Corr. 1C; H314 >= 0,6 % Skin Irrit. 2; H315 0,06 - < 0,6 % Eye Irrit. 2; H319 0,06 - < 0,6 % Skin Sens. 1A; H317 >= 0,0015 % Eye Dam. 1; H318 >= 0,6 % | >= 1 - < 2,5 |

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Acute toxicity
estimate

Acute oral toxicity: 64
mg/kg

Acute inhalation
toxicity (dust/mist):
0,33 mg/l

Acute dermal toxicity:
87 mg/kg

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

- | | |
|-------------------------|---|
| General advice | : Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance. Do not leave the victim unattended. |
| If inhaled | : If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician. |
| In case of skin contact | : If in eyes or on skin, rinse well with water. Take off contaminated clothing and shoes immediately. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. If on skin, rinse well with water. If on clothes, remove clothes. |
| In case of eye contact | : Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. |
| If swallowed | : Keep respiratory tract clear. |

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Do NOT induce vomiting.
 Do not give milk or alcoholic beverages.
 Never give anything by mouth to an unconscious person.
 If symptoms persist, call a physician.
 Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Gastrointestinal discomfort
 Severe allergic skin reactions, bronchospasm and anaphylactic shock
 Extremely corrosive and destructive to tissue.
 Rash
 Swollen corrosion of the mucous membranes
 Blurred vision
 Nausea
 Itching
 Dermatitis
 Local irritation

Risks : May cause an allergic skin reaction.
 Causes serious eye damage.
 Causes severe burns.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures
5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon dioxide (CO₂)
 Carbon monoxide
 Aldehydes

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Hydrocarbons
Ketones
Nitrogen oxides (NO_x)
Magnesium oxides
Hydrogen chloride gas

5.3 Advice for firefighters

- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Specific extinguishing methods : Standard procedure for chemical fires.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Use personal protective equipment.

6.2 Environmental precautions

- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

- Methods for cleaning up : Neutralize with chalk, alkali solution or ammonia.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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- Advice on safe handling : Do not breathe vapors/dust.
 Avoid exposure - obtain special instructions before use.
 Avoid contact with skin and eyes.
 For personal protection see section 8.
 Smoking, eating and drinking should be prohibited in the application area.
 To avoid spills during handling keep bottle on a metal tray.
 Dispose of rinse water in accordance with local and national regulations.
 Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : When using do not eat or drink. When using do not smoke.
 Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

- Advice on common storage : Do not store near acids.

- Storage class (TRGS 510) : 8A

- Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

- Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection
8.1 Control parameters
Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|----------------|----------|-------------------------------|-------------------------------|-------------|
| benzyl alcohol | 100-51-6 | AGW (Vapour and aerosols) | 5 ppm 22 mg/m ³ | DE TRGS 900 |

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| | Peak-limit category: 2;(I) | | | |
| | Further information: Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., Sum of vapor and aerosols., Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child | | | |
| mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1); | 55965-84-9 | TWA | 0,076 mg/m3 | SUPLR EXP |
| | Further information: 5-chloro-2-methyl-2H-isothiazolin-3-one | | | |
| | | STEL | 0,23 mg/m3 | SUPLR EXP |
| | Further information: 5-chloro-2-methyl-2H-isothiazolin-3-one | | | |
| | | TWA | 1,5 mg/m3 | SUPLR EXP |
| | Further information: 2-methyl-2H-isothiazolin-3-one | | | |
| | | STEL | 4,5 mg/m3 | SUPLR EXP |
| | Further information: 2-methyl-2H-isothiazolin-3-one | | | |

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Routes of exposure | Potential health effects | Value |
|------------------|---|--------------------|-----------------------------|-----------|
| propane-1,2-diol | WRKS - Workers | Inhalation | Long-term systemic effects | 168 mg/m3 |
| | Remarks:RD TOX - Repeated dose toxicity | | | |
| | WRKS - Workers | Inhalation | LOCAL LT - Local, long-term | 10 mg/m3 |
| | Remarks:RD TOX - Repeated dose toxicity | | | |
| benzyl alcohol | Consumers | Ingestion | Acute systemic effects | 20 mg/kg |
| | Consumers | Ingestion | Long-term systemic effects | 4 mg/kg |
| | Workers | Inhalation | Acute systemic effects | 110 mg/m3 |
| | Workers | Inhalation | Long-term systemic effects | 22 mg/m3 |
| | Consumers | Inhalation | Acute systemic effects | 27 mg/m3 |
| | Consumers | Inhalation | Long-term systemic effects | 5,4 mg/m3 |
| | Workers | Skin contact | Acute systemic effects | 40 mg/cm2 |
| | Workers | Skin contact | Long-term systemic effects | 8 mg/cm2 |

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| | | | | |
|--|-----------|--------------|----------------------------|-----------|
| | Consumers | Skin contact | Acute systemic effects | 20 mg/cm2 |
| | Consumers | Skin contact | Long-term systemic effects | 4 mg/cm2 |

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment | Value |
|------------------|---------------------------|-------------|
| propane-1,2-diol | Fresh water | 260 mg/l |
| | Sea water | 26 mg/l |
| | Intermittent use/release | 183 mg/l |
| | Sewage treatment plant | 20000 mg/l |
| benzyl alcohol | Fresh water | 572 mg/kg |
| | Sea sediment | 57,2 mg/kg |
| | Soil | 50 mg/kg |
| | Sewage treatment plant | 39 mg/l |
| | Aquatic (marine water) | 0,1 mg/l |
| | Aquatic (freshwater) | 1 mg/l |
| | Sediment (freshwater) | 5,27 mg/kg |
| | Sediment (marine water) | 0,527 mg/kg |
| | Soil | 0,456 mg/kg |

8.2 Exposure controls
Engineering measures

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Eye/face protection : Tightly fitting safety goggles
 Eye wash bottle with pure water

Hand protection
 Material : butyl-rubber
 Break through time : 480 min
 Glove thickness : > 0,5 mm

Remarks : The exact break through time can be obtained from the protective glove producer and this has to be observed. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Skin and body protection : Work uniform or laboratory coat.

Respiratory protection : In the case of vapour formation use a respirator with an approved filter within the capabilities of the respirator/filter combination.

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Where concentrations are above recommended limits or are unknown, or a cartridge type respirator is not adequate, wear a positive-pressure supplied-air respirator.
 Respiratory protection complying with EN 136.
 Respiratory protection complying with EN 140.
 Respiratory protection complying with EN 14387.

SECTION 9: Physical and chemical properties
9.1 Information on basic physical and chemical properties

Physical state : Aqueous solution
 Color : yellow
 Odor : noticeable
 Odor Threshold : No data available

Melting point/freezing point : not determined

Boiling point/boiling range : > 100 °C

Flammability : not determined

Upper explosion limit / Upper flammability limit : not determined

Lower explosion limit / Lower flammability limit : not determined

Flash point : 100 °C

Decomposition temperature : No data available

pH : ca. 4 (20 °C)

Viscosity

Viscosity, dynamic : not determined

Viscosity, kinematic : not determined

Solubility(ies)

Water solubility : 280 g/l

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : not determined

Vapor pressure : 20 hPa

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Relative density : No data available

Density : 1,10 - 1,11 g/cm³ (20 °C)

Relative vapor density : not determined

9.2 Other information

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Flammability (liquids) : not determined

Self-ignition : not determined

Evaporation rate : not determined

Molecular weight : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Keep away from oxidizing agents, and acidic or alkaline products.
Vapors may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Protect from frost, heat and sunlight.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon monoxide
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)
Sulfur oxides

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SECTION 11: Toxicological information
11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure :

 Inhalation
 Eye contact
 Skin contact
 Ingestion

Acute toxicity

Not classified based on available information.

Product:

 Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
 Method: Calculation method

 Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l
 Exposure time: 4 h
 Test atmosphere: dust/mist
 Method: Calculation method

 Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg
 Method: Calculation method

Components:
benzyl alcohol:

Acute oral toxicity : LD50 (Rat, male): 1.620 mg/kg

 Acute inhalation toxicity : LC50 (Rat): 4,178 mg/l
 Exposure time: 4 h
 Test atmosphere: dust/mist

 Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg
 Assessment: Not classified as acutely toxic by dermal absorption under GHS.

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1);:

Acute oral toxicity : LD50 (Rat): 64 mg/kg

 Acute toxicity estimate: 64 mg/kg
 Method: Calculation method

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Acute inhalation toxicity : LC50 (Rat): 0,33 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute toxicity estimate: 0,33 mg/l
Test atmosphere: dust/mist
Method: Calculation method

Acute dermal toxicity : LD50 (Rabbit): 87 mg/kg

Acute toxicity estimate: 87 mg/kg
Method: Calculation method

Skin corrosion/irritation

Causes severe burns.

Product:

Remarks : Extremely corrosive and destructive to tissue.

Components:

benzyl alcohol:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Slight, transient irritation

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1);:

Species : Rabbit
Result : Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days.

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks : May cause irreversible eye damage.

Components:

benzyl alcohol:

Result : Irritating to eyes.

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mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1);:

Species : Rabbit
 Result : Corrosive

Respiratory or skin sensitization
Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Product:

Remarks : Causes sensitization.

Components:
benzyl alcohol:

Assessment : Did not cause sensitization on laboratory animals.

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1);:

Result : The product is a skin sensitizer, sub-category 1A.

Germ cell mutagenicity

Not classified based on available information.

Components:
benzyl alcohol:

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

Genotoxicity in vivo : Test Type: Micronucleus test
 Species: Mouse
 Method: OECD Test Guideline 474
 Result: negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

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STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

benzyl alcohol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 460 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 230 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : (Pseudokirchneriella subcapitata (green algae)): 770 mg/l
End point: EC50
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 51 mg/l
End point: Reproduction Test
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1);:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,19 mg/l
Exposure time: 96 h

LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,28 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,16 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,027 mg/l
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 100

Toxicity to microorganisms : EC50 (activated sludge): 4,5 mg/l
Test Type: Respiration inhibition

M-Factor (Chronic aquatic toxicity) : 100

12.2 Persistence and degradability

Components:

benzyl alcohol:

Biodegradability : Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 92 %
Exposure time: 14 d

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1);:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 30 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

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12.3 Bioaccumulative potential

Components:

benzyl alcohol:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 1,10

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

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Contaminated packaging : Empty remaining contents.
 Dispose of as unused product.
 Do not re-use empty containers.

SECTION 14: Transport information

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14.1 UN number

ADN: UN3265

ADR: UN3265

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: UN3265

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: UN3265

INTERNATIONAL MARITIME DANGEROUS GOODS: UN3265

RID: UN3265

14.2 UN proper shipping name

ADN: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Mixture of 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE and 2-METHYL-4-ISOTHIAZOLIN-3-ONE)

ADR: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Mixture of 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE and 2-METHYL-4-ISOTHIAZOLIN-3-ONE)

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Mixture of 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE and 2-METHYL-4-ISOTHIAZOLIN-3-ONE)

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Mixture of 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE and 2-METHYL-4-ISOTHIAZOLIN-3-ONE)

INTERNATIONAL MARITIME DANGEROUS GOODS: Corrosive liquid, acidic, organic, n.o.s. (Mixture of 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE and 2-METHYL-4-ISOTHIAZOLIN-3-ONE)

RID: Corrosive liquid, acidic, organic, n.o.s. (Mixture of 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE and 2-METHYL-4-ISOTHIAZOLIN-3-ONE)

14.3 Transport hazard class(es)

ADN: 8

ADR: 8

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: 8

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: 8

INTERNATIONAL MARITIME DANGEROUS GOODS: 8

RID: 8

14.4 Packing group



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ADN: III

ADR: III

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: III

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: III

INTERNATIONAL MARITIME DANGEROUS GOODS: III

RID: III

14.5 Environmental hazards

ADN: Environmentally hazardous

ADR: Environmentally hazardous

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Environmentally hazardous

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Environmentally hazardous

INTERNATIONAL MARITIME DANGEROUS GOODS: Environmentally hazardous

RID: Environmentally hazardous

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Ship Type: Not applicable

Hazard code(s): Not applicable

Pollutant Category: Not applicable

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

: Conditions of restriction for the following entries should be considered:
 Number on list 3
 benzyl alcohol (Number on list 3)
 mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1); (Number on list 3)
 nitric acid (Number on list 3)

REACH - Candidate List of Substances of Very High

: Not applicable

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Concern for Authorization (Article 59).

 Regulation (EC) No 1005/2009 on substances that
 deplete the ozone layer : Not applicable

 Regulation (EU) 2019/1021 on persistent organic
 pollutants (recast) : Not applicable

 Regulation (EC) No 649/2012 of the European
 Parliament and the Council concerning the export and
 import of dangerous chemicals : Not applicable

 REACH - List of substances subject to authorisation
 (Annex XIV) : Not applicable

 Seveso III: Directive 2012/18/EU of the E1 ENVIRONMENTAL HAZARDS
 European Parliament and of the Council on the
 control of major-accident hazards involving
 dangerous substances.

 Water hazard class : WGK 3 highly water endangering
 (Germany)

 TA Luft List (Germany) : 5.2.1 Total dust:
 Not applicable
 5.2.2 Inorganic substances in powdered form:
 Not applicable
 5.2.4 Inorganic substances in gaseous form:
 Not applicable
 5.2.5 Organic Substances:
 Class 1: 14,72 %
 benzyl alcohol
 mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247-
 500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]
 (3:1);

5.2.7.1.1 Carcinogenic substance:

Not applicable

5.2.7.1.1 Quartz fine dust PM4:

Not applicable

5.2.7.1.1 Formaldehyde:

Not applicable

5.2.7.1.2 Germ cell mutagens:

Not applicable

5.2.7.1.3 Substances toxic to reproduction:

Not applicable

 5.2.7.2 Poorly degradable, easily enrichable and highly toxic
 organic substances:

Not applicable

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national

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regulations, where applicable.

The ingredients of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory

TSCA : For Cosmetic Use Only

AIIC : On the inventory, or in compliance with the inventory

DSL : All components of this product are on the Canadian DSL

ENCS : On the inventory, or in compliance with the inventory

ISHL : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

15.2 Chemical Safety Assessment

No data available

SECTION 16: Other information
Full text of H-Statements

H301 : Toxic if swallowed.
 H302 : Harmful if swallowed.
 H310 : Fatal in contact with skin.
 H314 : Causes severe skin burns and eye damage.
 H317 : May cause an allergic skin reaction.
 H318 : Causes serious eye damage.
 H319 : Causes serious eye irritation.
 H330 : Fatal if inhaled.
 H332 : Harmful if inhaled.
 H400 : Very toxic to aquatic life.
 H410 : Very toxic to aquatic life with long lasting effects.
 EUH071 : Corrosive to the respiratory tract.

Full text of other abbreviations

Acute Tox. : Acute toxicity
 Aquatic Acute : Short-term (acute) aquatic hazard
 Aquatic Chronic : Long-term (chronic) aquatic hazard
 Eye Dam. : Serious eye damage



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|-------------------|---|
| Eye Irrit. | : Eye irritation |
| Skin Corr. | : Skin corrosion |
| Skin Sens. | : Skin sensitization |
| DE TRGS 900 | : Germany. TRGS 900 - Occupational exposure limit values. |
| SUPLR EXP | : Supplier-recommended exposure guidelines |
| DE TRGS 900 / AGW | : Time Weighted Average |
| SUPLR EXP / STEL | : Short term exposure limit |
| SUPLR EXP / TWA | : Time weighted average |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

| | |
|---------------|------|
| Skin Corr. 1C | H314 |
| Eye Dam. 1 | H318 |

Classification procedure:

| |
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| Calculation method |
| Calculation method |

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|-------------------|------|--------------------|
| Skin Sens. 1 | H317 | Calculation method |
| Aquatic Acute 1 | H400 | Calculation method |
| Aquatic Chronic 1 | H410 | Calculation method |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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