

Page 1 of 15
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 22.01.2020 / 0005
 Replacing version dated / version: 22.02.2019 / 0004
 Valid from: 22.01.2020
 PDF print date: 23.01.2020
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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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:

Cleaner

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

WD-40 Company Limited, PO Box 440, Kiln Farm, Milton Keynes, MK11 3LF, United Kingdom
 Phone:+44 (0) 1908 555400, Fax:+44 (0) 1908 266900
 Compliance@wd40.co.uk, www.wd40.co.uk

(IRL)

P.R. Rielly Limited KarKraft House, Kilbarrack Industrial Estate, Kilbarrack, Dublin 5, Ireland
 Phone:01-832 0006, Fax:01-832 0016
 web@team.ie

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:

+49 (0) 700 / 24 112 112 (WDC)

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 |
|--------------|-----------------|---------------------------------|
| Eye Dam. | 1 | H318-Causes serious eye damage. |

2.2 Label elements

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



Danger

H318-Causes serious eye damage.

Page 2 of 15
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 22.01.2020 / 0005
 Replacing version dated / version: 22.02.2019 / 0004
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 1001@SHAMPOO

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.
 P280-Wear eye protection.
 P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310-Immediately call a POISON CENTER / doctor.

EUH208-Contains Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 2-methylisothiazol-3(2H)-one. May produce an allergic reaction.

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts
 Sulfuric acid, mono-C10-14-alkyl esters, sodium salts

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a.

3.2 Mixture

| Tetrapotassium pyrophosphate | |
|---|--------------------|
| Registration number (REACH) | --- |
| Index | --- |
| EINECS, ELINCS, NLP | 230-785-7 |
| CAS | 7320-34-5 |
| content % | 1-<5 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Eye Irrit. 2, H319 |

| Sulfuric acid, mono-C10-14-alkyl esters, sodium salts | |
|---|---|
| Registration number (REACH) | --- |
| Index | --- |
| EINECS, ELINCS, NLP | 292-227-9 |
| CAS | 90583-28-1 |
| content % | 1-<3 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Skin Irrit. 2, H315 Eye Dam. 1, H318 |

| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | |
|---|---|
| Registration number (REACH) | --- |
| Index | --- |
| EINECS, ELINCS, NLP | 270-407-8 |
| CAS | 68439-57-6 |
| content % | 1-<2 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Skin Irrit. 2, H315 Eye Dam. 1, H318 |

| 2-methylisothiazol-3(2H)-one | |
|------------------------------|----------------|
| Registration number (REACH) | --- |
| Index | 613-326-00-9 |
| EINECS, ELINCS, NLP | 220-239-6 |
| CAS | 2682-20-4 |
| content % | 0,0001-<0,0015 |

Page 3 of 15
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 22.01.2020 / 0005
 Replacing version dated / version: 22.02.2019 / 0004
 Valid from: 22.01.2020
 PDF print date: 23.01.2020
 1001@SHAMPOO

| | |
|--|--|
| Classification according to Regulation (EC) 1272/2008 (CLP) | Acute Tox. 3, H301 Acute Tox. 3, H311 Skin Corr. 1B, H314 Skin Sens. 1A, H317 Eye Dam. 1, H318 Acute Tox. 2, H330 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1) |
| Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | |
| Registration number (REACH) | --- |
| Index | 613-167-00-5 |
| EINECS, ELINCS, NLP | --- |
| CAS | 55965-84-9 |
| content % | 0,0001-<0,0015 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Acute Tox. 3, H301 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) Eye Dam. 1, H318 Skin Corr. 1C, H314 Skin Sens. 1A, H317 Acute Tox. 2, H310 Acute Tox. 2, H330 |

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.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.

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.

Unsuitable cleaning product:

Solvent

Thinners

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

Protect uninjured eye.

Follow-up examination by an ophthalmologist.

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.

4.3 Indication of any immediate medical attention and special treatment needed

n.c.

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

Oxides of phosphorus

Oxides of sulphur

Oxides of nitrogen

5.3 Advice for firefighters

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

Ensure sufficient supply of air.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

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.

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.

Unsuitable cleaning product:

Solvent

Thinners

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.

Avoid long lasting or intensive contact with 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.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 22.01.2020 / 0005

Replacing version dated / version: 22.02.2019 / 0004

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8.1 Control parameters

| Tetrapotassium pyrophosphate | | | | | | |
|------------------------------|---|-----------------------------|------------|-------|--------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 0,05 | mg/l | |
| | Environment - marine | | PNEC | 0,005 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 50 | mg/l | |
| | Environment - sporadic (intermittent) release | | PNEC | 0,5 | mg/l | |
| Consumer | Human - oral | | DNEL | 70 | mg/kg bw/day | |
| Consumer | Human - inhalation | | DNEL | 0,68 | mg/l | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 10,87 | mg/m3 | |
| Workers / employees | Human - inhalation | | DNEL | 2,79 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 44,08 | mg/m3 | |

| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | | | | | | |
|---|---|-----------------------------|------------|---------|------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 0,024 | mg/l | |
| | Environment - marine | | PNEC | 0,0024 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 0,747 | mg/kg | |
| | Environment - sediment, marine | | PNEC | 0,0767 | mg/kg | |
| | Environment - soil | | PNEC | 1,21 | mg/kg | |
| | Environment - sewage treatment plant | | PNEC | 4 | mg/l | |
| | Environment - sporadic (intermittent) release | | PNEC | 0,0197 | mg/l | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 1295 | mg/kg bw/d | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 12,95 | mg/kg bw/d | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 45,04 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 2158,33 | mg/kg bw/d | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 152,22 | mg/m3 | |

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

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.

Eye/face protection:

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

Skin protection - Hand protection:

Chemical resistant protective gloves (EN 374).

Protective Neoprene® / polychloroprene gloves (EN 374).

Permeation time (penetration time) in minutes:

>480

Minimum layer thickness in mm:

0,7

Protective hand cream recommended.

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.

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: | White, Turbid |
| Odour: | Perfumed |
| Odour threshold: | Not determined |
| pH-value: | 8-9 |
| Melting point/freezing point: | Not determined |
| Initial boiling point and boiling range: | Not determined |
| Flash point: | Not determined |
| Evaporation rate: | Not determined |
| Flammability (solid, gas): | Not determined |
| Lower explosive limit: | Not determined |
| Upper explosive limit: | Not determined |
| Vapour pressure: | Not determined |
| Vapour density (air = 1): | Not determined |
| Density: | 1-1,1 (20°C, relative density) |
| Bulk density: | n.a. |
| Solubility(ies): | Not determined |
| Water solubility: | Mixable |
| Partition coefficient (n-octanol/water): | Not determined |
| Auto-ignition temperature: | Not determined |
| Decomposition temperature: | Not determined |
| Viscosity: | <10 mPas |
| Explosive properties: | n.a. |
| Oxidising properties: | No |

9.2 Other information

| | |
|---------------------------|----------------|
| Miscibility: | Not determined |
| Fat solubility / solvent: | Not determined |
| Conductivity: | Not determined |
| Surface tension: | Not determined |

Page 7 of 15
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 22.01.2020 / 0005
 Replacing version dated / version: 22.02.2019 / 0004
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 1001@SHAMPOO

Solvents content:

Not determined

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 toxicological effects

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. |
| Other information: | | | | | | Classification according to calculation procedure. |

Tetrapotassium pyrophosphate

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|------------------------------------|----------|-------|-------|----------|--|-----------------|
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LD50 | >1,1 | mg/l | Rat | OECD 403 (Acute Inhalation Toxicity) | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Irritant |
| Respiratory or skin sensitisation: | | | | | | Not sensitising |
| Aspiration hazard: | | | | | | No |

Page 8 of 15
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 22.01.2020 / 0005
 Replacing version dated / version: 22.02.2019 / 0004
 Valid from: 22.01.2020
 PDF print date: 23.01.2020
 1001@SHAMPOO

| | | | | | | |
|-----------|--|--|--|--|--|----------------------------|
| Symptoms: | | | | | | mucous membrane irritation |
|-----------|--|--|--|--|--|----------------------------|

| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | | | | | | |
|--|----------|------------|---------|------------|--|---|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >2000 | mg/kg | Rat | | |
| Acute toxicity, by dermal route: | LD50 | 6300-13500 | mg/kg | Rabbit | | |
| Acute toxicity, by inhalation: | LC50 | >52 | mg/l/4h | Rat | | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Skin Irrit. 2 |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Eye Dam. 1 |
| Respiratory or skin sensitisation: | | | | Guinea pig | | No (skin contact) |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative |
| Symptoms: | | | | | | stomach pain, eyes, reddened, blisters by skin-contact, watering eyes |

| 2-methylisothiazol-3(2H)-one | | | | | | |
|-------------------------------------|----------|-------|---------|----------|--------------------------------------|---------------------------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | 183 | mg/kg | Rat | | |
| Acute toxicity, by dermal route: | LD50 | 242 | mg/kg | Rat | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LD50 | 0,11 | mg/l/4h | Rat | OECD 403 (Acute Inhalation Toxicity) | Aerosol |
| Skin corrosion/irritation: | | | | | | Corrosive |
| Serious eye damage/irritation: | | | | | | Risk of serious damage to eyes. |
| Respiratory or skin sensitisation: | | | | | | Sensitising (skin contact) |

| Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | | | | | | |
|--|----------|-------|-------|------------|-------------------------------|--|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | 53 | mg/kg | Rat | | |
| Acute toxicity, by dermal route: | LD50 | 660 | mg/kg | Rabbit | | |
| Skin corrosion/irritation: | | | | Rabbit | | Corrosive |
| Serious eye damage/irritation: | | | | Rabbit | | Corrosive |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | Yes (skin contact) |
| Aspiration hazard: | | | | | | No |
| Symptoms: | | | | | | diarrhoea, mucous membrane irritation, watering eyes |

SECTION 12: Ecological information

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

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|--|----------|------|-------|------|----------|-------------|--|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | | | | | | | n.d.a. |
| 12.1. Toxicity to daphnia: | | | | | | | n.d.a. |
| 12.1. Toxicity to algae: | | | | | | | n.d.a. |
| 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. Other adverse effects: | | | | | | | n.d.a. |

| Tetrapotassium pyrophosphate | | | | | | | |
|--|-----------|------|-------|------|---------------------|--|---|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | >100 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | >100 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | >100 | mg/l | | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | NOEC/NOEL | 72h | >100 | mg/l | | | |
| 12.3. Bioaccumulative potential: | Log Pow | | -2 | | | | Bioaccumulation is unlikely (LogPow < 1). |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |

| | | | | | | | |
|-----------------------|------|----|-------|------|------------------|--|---|
| Toxicity to bacteria: | EC50 | 3h | >1000 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |
| Other information: | | | | | | | Contains organically bound halogens, which may contribute to the AOX value in wastewater. |

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--|-----------|------|-------|------|---------------|--|-------------------------------------|
| 12.2. Persistence and degradability: | | 28d | 92 | % | | OECD 306 (Biodegradability in Seawater) | Readily biodegradable |
| 12.3. Bioaccumulative potential: | Log Pow | | -1,3 | | | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 4,53 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | 5,2 | mg/l | | ISO 10253 | |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 6,3 | mg/l | Daphnia magna | OECD 211 (Daphnia magna Reproduction Test) | |
| 12.2. Persistence and degradability: | | 28d | 80 | % | | OECD 301 B (Ready Biodegradability - Co2 Evolution Test) | Readily biodegradable |
| 12.1. Toxicity to fish: | LC50 | 96h | 4,2 | mg/l | | OECD 203 (Fish, Acute Toxicity Test) | |

2-methylisothiazol-3(2H)-one

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--------------------------------------|-----------|------|-------|------|---------------------|---|---------------------------|
| 12.2. Persistence and degradability: | | 28d | 0,32 | % | | OECD 301 B (Ready Biodegradability - Co2 Evolution Test) | Not readily biodegradable |
| 12.3. Bioaccumulative potential: | Log Kow | | -0,32 | | | OECD 117 (Partition Coefficient (n- octanol/water) - HPLC method) | |
| 12.1. Toxicity to fish: | NOEC/NOEL | 28d | 2,38 | mg/l | Pimephales promelas | OECD 210 (Fish, Early-Life Stage Toxicity Test) | |
| 12.1. Toxicity to fish: | LC50 | 96h | 4,77 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |

| | | | | | | | |
|----------------------------|-----------|------|--------|------|----------------------------------|--|--|
| 12.1. Toxicity to daphnia: | EC50 | 48h | 0,359 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 0,0442 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to algae: | NOEC/NOEL | 120h | 0,05 | mg/l | Pseudokirchnerie lla subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | 0,445 | mg/l | Pseudokirchnerie lla subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--|-----------|------|-------------|------|----------------------------------|--|--|
| 12.1. Toxicity to fish: | LC50 | 96h | 0,28 | mg/l | Lepomis macrochirus | | |
| 12.1. Toxicity to fish: | LC50 | 96h | 0,19-0,22 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to fish: | NOEC/NOEL | 28d | 0,098 | mg/l | Oncorhynchus mykiss | OECD 210 (Fish, Early-Life Stage Toxicity Test) | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 0,004 | mg/l | Daphnia magna | OECD 211 (Daphnia magna Reproduction Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 0,16 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to algae: | EC50 | 72h | 0,048 | mg/l | Pseudokirchnerie lla subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | NOEC/NOEL | 72h | 0,0012 | mg/l | Pseudokirchnerie lla subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | | >60 | % | activated sludge | OECD 301 D (Ready Biodegradability - Closed Bottle Test) | Does not conform with EU classification. |
| 12.3. Bioaccumulative potential: | BCF | | 3,6 | | | | calculated value |
| 12.3. Bioaccumulative potential: | Log Pow | | 0,401-0,486 | | | | Does not conform with EU classification. |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | EC50 | 3h | 7,92 | 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.:

Page 12 of 15
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 22.01.2020 / 0005
 Replacing version dated / version: 22.02.2019 / 0004
 Valid from: 22.01.2020
 PDF print date: 23.01.2020
 1001@SHAMPOO

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)

07 06 01 aqueous washing liquids and mother liquors
 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.

Recommended cleaner:

Water

15 01 02 plastic packaging

SECTION 14: Transport information

General statements

14.1. UN number: n.a.

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

14.3. Transport hazard class(es): n.a.

14.4. Packing group: n.a.

Classification code: n.a.

LQ: n.a.

14.5. Environmental hazards: Not applicable

Tunnel restriction code:

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

14.3. Transport hazard class(es): n.a.

14.4. Packing group: n.a.

Marine Pollutant: n.a.

14.5. Environmental hazards: Not applicable

Transport by air (IATA)

14.2. UN proper shipping name:

14.3. Transport hazard class(es): n.a.

14.4. Packing group: n.a.

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. Transport in bulk according to Annex II of MARPOL and the IBC Code

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 maternity protection (national implementation of the Directive 92/85/EEC)!

Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC): < 0,25 %

REGULATION (EC) No 648/2004

less than 5 %

anionic surfactants

phosphates

perfumes

CITRAL

CITRONELLOL

Page 13 of 15
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 22.01.2020 / 0005
 Replacing version dated / version: 22.02.2019 / 0004
 Valid from: 22.01.2020
 PDF print date: 23.01.2020
 1001@SHAMPOO

LIMONENE
 LINALOOL
 BENZISOTHIAZOLINONE
 METHYLCHLOROISOTHIAZOLINONE/ METHYLISOTHIAZOLINONE
 METHYLISOTHIAZOLINONE

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 rules/regulation for the compliance with maximum quantities with regard to phosphates and or phosphorous compounds must be observed and complied with.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

EUF0034
 Revised sections: 2, 3, 11, 12, 15
 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 |
|---|--|
| Eye Dam. 1, H318 | 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 (specified in Section 2 and 3).

H330 Fatal if inhaled.
 H310 Fatal in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H301 Toxic if swallowed.
 H311 Toxic in contact with skin.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.

Eye Dam. — Serious eye damage
 Eye Irrit. — Eye irritation
 Skin Irrit. — Skin irritation
 Acute Tox. — Acute toxicity - oral
 Acute Tox. — Acute toxicity - dermal
 Skin Corr. — Skin corrosion
 Skin Sens. — Skin sensitization
 Acute Tox. — Acute toxicity - inhalation
 Aquatic Acute — Hazardous to the aquatic environment - acute
 Aquatic Chronic — Hazardous to the aquatic environment - chronic

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)
 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)
 BSEF The International Bromine Council
 bw body weight
 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
 dw dry weight
 e.g. for example (abbreviation of Latin 'exempli gratia'), for instance
 EC European Community
 ECHA European Chemicals Agency
 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)
 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
 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
 LQ Limited Quantities
 MARPOL International Convention for the Prevention of Marine Pollution from Ships
 n.a. not applicable
 n.av. not available
 n.c. not checked
 n.d.a. no data available
 OECD Organisation for Economic Co-operation and Development
 org. organic
 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. 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
 UN RTDG United Nations Recommendations on the Transport of Dangerous Goods
 VOC Volatile organic compounds
 vPvB very persistent and very bioaccumulative
 wwt wet weight

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:

Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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Page 15 of 15

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 22.01.2020 / 0005

Replacing version dated / version: 22.02.2019 / 0004

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