



PRODUCT SAFETY DATA SHEET

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

1.1 Product identifier

Finish Rinse & Shine Aid

SDS number: D8397172

Code: 3231930 / 3245778 3245780 3246612

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

Rinse agents for dishes

Consumer use

1.3. Details of the Supplier of the Safety Data Sheet

The United Kingdom:

RB UK Hygiene Home Commercial Ltd

Wellcroft House

Wellcroft Road

Slough, Berkshire SL1 4AQ

Tel: 0800 376 8181

Email: ConsumerCare_UK@reckitt.com

The Republic Of Ireland:

RB Ireland Hygiene Home Commercial Ltd

7 Riverwalk

Citywest Business Campus

Dublin 24

Ireland

Tel: 01 661 7318

Email: ConsumerHealth_IE@reckitt.com

1.4 Emergency telephone number

GB - NHS 111/NHS 24 Tel: 111

NI - www.gpoutofhours.hscni.net/

IE - Poisons Information Centre of Ireland: 01 809 2166 8am-10pm 7 days a week.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Eye Dam. 1, H318

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

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SECTION 2: Hazards identification

Hazard pictograms :



Signal word :

Danger

Hazard statements :

Causes serious eye damage.

Precautionary statements

General :

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

Prevention :

Not applicable

Response :

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 or doctor.

Storage :

Not applicable.

Disposal :

Not applicable.

Hazardous ingredients :

TRIDECETH-6

Supplemental label elements :

Contains METHYLCHLOROISOTHIAZOLINONE AND METHYLISOTHIAZOLINONE.
May produce an allergic reaction.

Ingredient Declaration:

5 - < 15% non-ionic surfactants,

Contains preservatives

Methylchloroisothiazolinone and Methylisothiazolinone, Potassium sorbate..

Special packaging requirements

Containers to be fitted with child-resistant fastenings :

Not applicable.

Tactile warning of danger :

Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII :

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

Other hazards which do not result in classification :

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures :

Mixture

| Product/ingredient name | Identifiers | % | Classification | Specific Conc. Limits, M-factors and ATEs | Type |
|----------------------------------------------------------------------|----------------------------------|-----|----------------------------------------|-------------------------------------------|------|
| sodium cumenesulphonate | EC: 248-983-7 CAS: 28348-53-0 | ≤10 | Eye Irrit. 2, H319 | - | [1] |
| Oxirane, methyl-, polymer with oxirane, monoisotridecyl ether, block | CAS: 196823-11-7 | ≤10 | Eye Irrit. 2, H319 | - | [1] |
| Isotridecanol, ethoxylated | EC: 500-241-6 CAS: 69011-36-5 | ≤5 | Eye Dam. 1, H318 Aquatic Chronic 3, | - | [1] |

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SECTION 3: Composition/information on ingredients

| | | | | | |
|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| CITRIC ACID | REACH #: 01-2119457026-42 EC: 201-069-1 CAS: 77-92-9 | ≤3 | H412 Eye Irrit. 2, H319 STOT SE 3, H335 | - | [1] |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | CAS: 55965-84-9 Index: 613-167-00-5 | <0.001 | Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071 See Section 16 for the full text of the H statements declared above. | ATE [Oral] = 53 mg/kg ATE [Dermal] = 50 mg/kg ATE [Inhalation (vapours)] = 0.5 mg/l Skin Corr. 1C, H314: C ≥ 0.6% Skin Irrit. 2, H315: 0.06% ≤ C < 0.6% Eye Dam. 1, H318: C ≥ 0.6% Eye Irrit. 2, H319: 0.06% ≤ C < 0.6% Skin Sens. 1, H317: C ≥ 0.0015% M [Acute] = 100 M [Chronic] = 100 | [1] |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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SECTION 4: First aid measures

- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
- Ingestion** : Adverse symptoms may include the following:
stomach pains

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : No specific fire or explosion hazard.
- Hazardous combustion products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur oxides
metal oxide/oxides

5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

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SECTION 5: Firefighting measures

- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- 6.2 Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

- 6.4 Reference to other sections** : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

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SECTION 7: Handling and storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations : Detergent for use in domestic automatic dishwashers
Consumer use

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

DNELs/DMELs

| Product/ingredient name | Type | Exposure | Value | Population | Effects |
|----------------------------|------|-----------------------|-------------------------|--------------------|----------|
| sodium cumenesulphonate | DNEL | Long term Dermal | 0.45 mg/cm ² | General population | Local |
| | DNEL | Long term Oral | 1.14 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 1.98 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 1.98 mg/m ³ | General population | Systemic |
| | DNEL | Long term Inhalation | 4.02 mg/m ³ | Workers | Local |
| | DNEL | Long term Inhalation | 4.02 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 4.49 mg/cm ² | Workers | Local |
| | DNEL | Long term Dermal | 16 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Dermal | 20 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Dermal | 32 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Dermal | 40 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Oral | 70 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Inhalation | 770 mg/m ³ | General population | Local |
| | DNEL | Short term Inhalation | 770 mg/m ³ | General population | Systemic |
| | DNEL | Short term Inhalation | 770 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 770 mg/m ³ | Workers | Systemic |
| Isotridecanol, ethoxylated | DNEL | Long term Oral | 25 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 87 mg/m ³ | General population | Systemic |
| | DNEL | Long term | 294 mg/m ³ | Workers | Systemic |

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SECTION 8: Exposure controls/personal protection

| | | | | | |
|-----------------------------------------------------------------------------------------------|------|--------------------------------|------------------------|-----------------------|----------|
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | DNEL | Inhalation Long term Dermal | 1250 mg/ kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 2080 mg/ kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 0.02 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 0.02 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 0.04 mg/m ³ | General population | Local |
| | DNEL | Short term Inhalation | 0.04 mg/m ³ | Workers | Local |
| | DNEL | Long term Oral | 0.09 mg/ kg bw/day | General population | Systemic |
| | DNEL | Short term Oral | 0.11 mg/ kg bw/day | General population | Systemic |

PNECs

| Product/ingredient name | Compartment Detail | Value | Method Detail |
|-------------------------|-----------------------|------------|---------------|
| CITRIC ACID | Fresh water | 440 mg/l | - |
| | Fresh water sediment | 34.6 mg/kg | - |
| | Marine water sediment | 3.46 mg/kg | - |
| | Soil | 33.1 mg/kg | - |

8.2 Exposure controls

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

Hand protection : EN 16523-1:2015
Tested for protection against chemical permeation.
Low chemical resistant or waterproof gloves.
(EN 16523-1:2015 supersedes EN 374-3:2003)
EN 374-2:2003
Tested for protection against liquid penetration and micro-organisms.
EN 388:2003
Tested for protection against mechanical risks (abrasion, blade cut resistance, tear resistance and puncture resistance).
ISO 374-1:2016/Type A
Protective glove with permeation resistance of at least 30 minutes each for at least 6 test chemicals.
ISO 374-1:2016/Type B
Protective glove with permeation resistance of at least 30 minutes each for at least 3 test chemicals.
ISO 374-1:2016/Type C
Protective glove with permeation resistance of at least 10 minutes for at least 1 test

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SECTION 8: Exposure controls/personal protection

chemical.

Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

- Physical state** : Liquid.
- Color** : Blue.
- Odor** : Odorless.
- Odor threshold** : Not relevant/applicable due to nature of the product.
- Melting point/freezing point** : Not relevant/applicable due to nature of the product.
- Initial boiling point and boiling range** : Not relevant/applicable due to nature of the product.
- Flammability (solid, gas)** : Not relevant/applicable due to nature of the product.
- Upper/lower flammability or explosive limits** : Not relevant/applicable due to nature of the product.
- Flash point** : Not relevant/applicable due to nature of the product.
- Auto-ignition temperature** : Not relevant/applicable due to nature of the product.
- Decomposition temperature** : Not relevant/applicable due to nature of the product.
- pH** : 2.6 to 3 [Conc. (% w/w): 100%]
- Viscosity** : Not relevant/applicable due to nature of the product.
- Solubility(ies)** :

| Media | Result |
|------------|----------------|
| cold water | Easily soluble |
| hot water | Easily soluble |

- Miscible with water** : Yes.
- Partition coefficient: n-octanol/ water** : Not relevant/applicable due to nature of the product.
- Vapor pressure** : Not determined
- Density** : 1.105 g/cm³
- Vapor density** : Not relevant/applicable due to nature of the product.
- Particle characteristics**

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SECTION 9: Physical and chemical properties

Median particle size : Not relevant/applicable due to nature of the product.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------------------------------------------------------------------------------|-------------|---------|-------------|----------|
| sodium cumenesulphonate | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | 7000 mg/kg | - |
| Oxirane, methyl-, polymer with oxirane, monoisotridecyl ether, block Isotridecanol, ethoxylated | LD50 Oral | Rat | >2000 mg/kg | - |
| | LD50 Dermal | Rabbit | 2001 mg/kg | - |
| | LD50 Oral | Rat | 5000 mg/kg | - |
| CITRIC ACID | LD50 Oral | Rat | 11700 mg/kg | - |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | LD50 Oral | Rat | 53 mg/kg | - |

Conclusion/Summary : Based on available data, the classification criteria are not met.

Acute toxicity estimates

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|-----------------------------------------------------------------------------------------------|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| sodium cumenesulphonate | 7000 | N/A | N/A | N/A | N/A |
| Isotridecanol, ethoxylated | 5000 | 2001 | N/A | N/A | N/A |
| CITRIC ACID | 11700 | N/A | N/A | N/A | N/A |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | 53 | 50 | N/A | 0.5 | N/A |

Irritation/Corrosion

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SECTION 11: Toxicological information

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-----------------------------------------------------------------------------------------------|--------------------------------------------------|------------------|--------|----------------------|--------------|
| Oxirane, methyl-, polymer with oxirane, monoisotridecyl ether, block | Eyes - Irritant | Rabbit | - | - | - |
| Isotridecanol, ethoxylated | Skin - Mild irritant Eyes - Moderate irritant | Rabbit Rabbit | - - | - 72 hours 0.1 mL | - 21 days |
| CITRIC ACID | Eyes - Severe irritant | Rabbit | - | 24 hours 750 ug | - |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | Skin - Severe irritant | Human | - | 0.01 % | - |

Conclusion/Summary

- Skin** : Based on available data, the classification criteria are not met.
Eyes : Calculation method Causes serious eye damage.
Respiratory : Based on available data, the classification criteria are not met.

Sensitization

Conclusion/Summary

- Skin** : Calculation method May produce an allergic reaction.
Respiratory : Based on available data, the classification criteria are not met.

Mutagenicity

- Conclusion/Summary** : Based on available data, the classification criteria are not met.

Carcinogenicity

- Conclusion/Summary** : Based on available data, the classification criteria are not met.

Reproductive toxicity

- Conclusion/Summary** : Based on available data, the classification criteria are not met.

Teratogenicity

- Conclusion/Summary** : Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------|------------|-------------------|------------------------------|
| CITRIC ACID | Category 3 | - | Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

- Eye contact** : Causes serious eye damage.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

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SECTION 11: Toxicological information

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
- Ingestion** : Adverse symptoms may include the following:
stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Based on available data, the classification criteria are not met.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|----------------------------------------------------------------------|-------------------------------------|----------------------------------------|------------|
| sodium cumenesulphonate | Acute EC50 230 mg/l | Algae - Pseudokirchnerella subcapitata | 96 hours |
| | Acute EC50 54 mg/l | Daphnia - Daphnia magna, mobility | 48 hours |
| Oxirane, methyl-, polymer with oxirane, monoisotridecyl ether, block | Acute LC50 1000 mg/l | Fish - Oncorhynchus mykiss | 96 hours |
| | Acute EC10 10 to 100 mg/l | Micro-organism | 30 minutes |
| Isotridecanol, ethoxylated CITRIC ACID | Acute EC50 10 to 100 mg/l | Aquatic plants | 72 hours |
| | Acute EC50 1 to 10 mg/l | Crustaceans | 48 hours |
| | Acute LC50 1 to 10 mg/l | Fish - Brachydanio rerio | 96 hours |
| | Chronic NOEC 1.73 mg/l | Fish | - |
| reaction mass of 5-chloro- | Acute LC50 160000 µg/l Marine water | Crustaceans - Carcinus maenas - Adult | 48 hours |
| | Acute EC50 0.048 mg/l | Algae - Pseudokirchneriella | 72 hours |

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SECTION 12: Ecological information

| | | | |
|---------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------|----------------------|
| 2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | Acute EC50 0.16 mg/l Acute EC50 0.22 mg/l | Subcapitata Daphnia Fish - Oncorhynchus mykiss | 48 hours 96 hours |
|---------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------|----------------------|

Conclusion/Summary : Not available.

12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------|----------|
| Oxirane, methyl-, polymer with oxirane, monoisotridecyl ether, block | OECD 301E 301E Ready Biodegradability - Modified OECD Screening Test | >90 % - Readily - 28 days | - | - |
| Isotridecanol, ethoxylated | ISO 14593 EU 301B Ready Biodegradability - CO ₂ Evolution Test | >60 % - Readily - 28 days >60 % - Readily - 28 days | - - | - - |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | EU 311 Anaerobic Biodegradation of Organic Compounds in Digested Sludge - Method by Measurement of Gas Production OECD 302B | >60 % - 60 days >90 % - 28 days | - - | - - |

Conclusion/Summary : Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-----------------------------------------------------------------------------------------------|-------------------|------------|------------------|
| sodium cumenesulphonate | - | - | Readily |
| Oxirane, methyl-, polymer with oxirane, monoisotridecyl ether, block | - | - | Readily |
| Isotridecanol, ethoxylated | - | - | Readily |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | - | - | Readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|----------------------------|--------------------|-------|-----------|
| Isotridecanol, ethoxylated | - | 232.5 | low |
| CITRIC ACID | -1.8 | - | low |

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

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SECTION 12: Ecological information

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

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Yes.

European waste catalogue (EWC)

| Waste code | Waste designation |
|------------|--------------------------------------------|
| 20 01 29* | detergents containing hazardous substances |

Packaging

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

For long distance transport of bulk material or shrunk pallet take into consideration sections 7 and 10.

| | ADR/RID | ADN | IMDG | IATA |
|----------------------------------------|----------------|----------------|----------------|----------------|
| 14.1 UN number or ID number | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name | - | - | - | - |
| 14.3 Transport hazard class(es) | - | - | - | - |
| 14.4 Packing group | - | - | - | - |
| 14.5 Environmental hazards | No. | No. | No. | No. |

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SECTION 14: Transport information

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : None.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

15.2 Chemical Safety Assessment : No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification | Justification |
|------------------|--------------------|
| Eye Dam. 1, H318 | Calculation method |

Full text of abbreviated H statements

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SECTION 16: Other information

| | |
|--------|-------------------------------------------------------|
| H301 | Toxic 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. |
| H335 | May cause respiratory irritation. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH071 | Corrosive to the respiratory tract. |

[Full text of classifications \[CLP/GHS\]](#)

| | |
|-------------------|---------------------------------------------------------------|
| Acute Tox. 2 | ACUTE TOXICITY - Category 2 |
| Acute Tox. 3 | ACUTE TOXICITY - Category 3 |
| Aquatic Acute 1 | AQUATIC HAZARD (ACUTE) - Category 1 |
| Aquatic Chronic 1 | AQUATIC HAZARD (LONG-TERM) - Category 1 |
| Aquatic Chronic 3 | AQUATIC HAZARD (LONG-TERM) - Category 3 |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 |
| Skin Corr. 1C | SKIN CORROSION/IRRITATION - Category 1C |
| Skin Sens. 1A | SKIN SENSITIZATION - Category 1A |
| STOT SE 3 | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3 |

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