Finish Rinse and Shine Aid

Status: Saved copy for Softwire London COSHH file

Source URL:
https://www.janitorialexpress.co.uk/proxy/viewdatasheet/SDS_Finish_Rinse_Aid_400ml_BB182-400_23-08-24.pdf

Retrieved: 23 September 2026

Refer to the source URL for the manufacturer's original branded/pictogram formatting if needed. This document is a faithful text reproduction of the official Safety Data Sheet content retrieved from the source above, reformatted for the COSHH file; it is not the manufacturer's original branded PDF.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

PRODUCT SAFETY DATA SHEET

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

1.1 Product identifier EU PSDS D8354616 v1

Finish Rinse & Shine Aid

SDS number: D8397172

Code: 3231930 / 3245778 3245780 3246612

1.2. Relevant identified uses of the subst ance 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

Date of issue/Date of revision :16/01/2023 Date of previous issue :22/06/2022 Version :2.0 1/15

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

D8397172
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 : Contains METHYLCHLOROISOTHIAZOLINONE AND
elements 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 : Not applicable.
with child-resistant
fastenings
Tactile warning of danger : Not applicable.
2.3 Other hazards
Product meets the criteria : This mixture does not contain any substances that are assessed to be a PBT or a
for PBT or vPvB according vPvB.
to Regulation (EC) No.
1907/2006, Annex XIII
Other hazards which do : None known.
not result in classification
SECTION 3: Composition/information on ingredients
3.2 Mixtures : Mixture
Specific Conc.
Product/ingredient name Identifiers % Classification Type
Limits, M-factors
and ATEs
sodium cumenesulphonate EC: 248-983-7 ≤10 Eye Irrit. 2, H319 - [1]
CAS: 28348-53-0
Oxirane, methyl-, polymer CAS: 196823-11-7 ≤10 Eye Irrit. 2, H319 - [1]
with oxirane,
monoisotridecyl ether, block
Isotridecanol, ethoxylated EC: 500-241-6 ≤5 Eye Dam. 1, H318 - [1]
CAS: 69011-36-5 Aquatic Chronic 3,

D8397172
SECTION 3: Composition/information on ingredients

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

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

SECTION 5: Firefighting measures
Special protective : Fire-fighters should wear appropriate protective equipment and self-contained equipment for fire-fighters 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 : No action shall be taken involving any personal risk or without suitable training.
personnel 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 : Avoid dispersal of spilled material and runoff and contact with soil, waterways,
precautions 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 : See Section 1 for emergency contact information.
sections 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

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

Industrial sector specific solutions : Consumer use : 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/cm²	General population	Local
	DNEL	Long term Oral	1.14 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1.98 mg/m³	General population	Local
	DNEL	Long term Inhalation	1.98 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	4.02 mg/m³	Workers	Local
	DNEL	Long term Inhalation	4.02 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	4.49 mg/cm²	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	Workers	Systemic

bw/day
DNEL Short term Dermal 40 mg/kg General Systemic
bw/day population
DNEL Short term Oral 70 mg/kg General Systemic
bw/day population
DNEL Short term 770 mg/m³ General Local
Inhalation population
DNEL Short term 770 mg/m³ General Systemic
Inhalation population
DNEL Short term 770 mg/m³ Workers Local
Inhalation
DNEL Short term 770 mg/m³ Workers Systemic
Inhalation
Isotridecanol, ethoxylated DNEL Long term Oral 25 mg/kg General Systemic
bw/day population
DNEL Long term 87 mg/m³ General Systemic
Inhalation population
DNEL Long term 294 mg/m³ Workers Systemic

SECTION 8: Exposure controls/personal protection
Inhalation
DNEL Long term Dermal 1250 mg/ General Systemic
kg bw/day population
DNEL Long term Dermal 2080 mg/ Workers Systemic
kg bw/day
reaction mass of 5-chloro-2-methyl- DNEL Long term 0.02 mg/m³ General Local
2H-isothiazol-3-one and 2-methyl- Inhalation population
2H-isothiazol-3-one (3:1)
DNEL Long term 0.02 mg/m³ Workers Local
Inhalation
DNEL Short term 0.04 mg/m³ General Local
Inhalation population
DNEL Short term 0.04 mg/m³ Workers Local
Inhalation
DNEL Long term Oral 0.09 mg/ General Systemic
kg bw/day population
DNEL Short term Oral 0.11 mg/ General Systemic
kg bw/day population
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 : If user operations generate dust, fumes, gas, vapor or mist, use process
controls 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

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 : Emissions from ventilation or work process equipment should be checked to
controls 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 : Not relevant/applicable due to nature of the product.
boiling range
Flammability (solid, gas) : Not relevant/applicable due to nature of the product.
Upper/lower flammability or : Not relevant/applicable due to nature of the product.
explosive limits
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/
: Not relevant/applicable due to nature of the product.
water
Vapor pressure : Not determined
Density : 1.105 g/cm³
Vapor density : Not relevant/applicable due to nature of the product.
Particle characteristics
Date of issue/Date of revision :16/01/2023 Date of previous issue :22/06/2022 Version :2.0 8/15
Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)
2020/878
D8397172
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 : Under normal conditions of storage and use, hazardous reactions will not occur.
hazardous reactions
10.4 Conditions to avoid : No specific data.
10.5 Incompatible materials : No specific data.
10.6 Hazardous : Under normal conditions of storage and use, hazardous decomposition products
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 LD50 Oral Rat >2000 mg/kg -
with oxirane,
monoisotridecyl ether, block
Isotridecanol, ethoxylated 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- LD50 Oral Rat 53 mg/kg -
2-methyl-2H-isothiazol-
3-one and 2-methyl-2H-
isothiazol-3-one (3:1)
Conclusion/Summary : Based on available data, the classification criteria are not met.
Acute toxicity estimates
Product/ingredient name Oral (mg/ Dermal Inhalation Inhalation Inhalation
kg) (mg/kg) (gases) (vapors) (dusts
(ppm) (mg/l) 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- 53 50 N/A 0.5 N/A
3-one and 2-methyl-2H-isothiazol-3-one (3:1)
Irritation/Corrosion

SECTION 11: Toxicological information
Product/ingredient name Result Species Score Exposure Observation
Oxirane, methyl-, polymer Eyes - Irritant Rabbit - - -
with oxirane,
monoisotridecyl ether, block
Skin - Mild irritant Rabbit - - -
Isotridecanol, ethoxylated Eyes - Moderate irritant Rabbit - 72 hours 0.1 21 days
mL
CITRIC ACID Eyes - Severe irritant Rabbit - 24 hours 750 -
ug
reaction mass of 5-chloro- Skin - Severe irritant Human - 0.01 % -
2-methyl-2H-isothiazol-
3-one and 2-methyl-2H-
isothiazol-3-one (3:1)
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 Target organs
exposure
CITRIC ACID Category 3 - Respiratory tract
irritation
Specific target organ toxicity (repeated exposure)
Not available.
Aspiration hazard
Not available.
Information on the likely : Not available.
routes of exposure
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

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 : Not available.
effects
Potential delayed effects : Not available.
Long term exposure
Potential immediate : Not available.
effects
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 96 hours
subcapitata
Acute EC50 54 mg/l Daphnia - Daphnia magna, 48 hours
mobility
Acute LC50 1000 mg/l Fish - Oncorhynchus mykiss 96 hours
Oxirane, methyl-, polymer Acute EC10 10 to 100 mg/l Micro-organism 30 minutes
with oxirane,
monoisotridecyl ether, block
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
Isotridecanol, ethoxylated Chronic NOEC 1.73 mg/l Fish -
CITRIC ACID Acute LC50 160000 µg/l Marine water Crustaceans - Carcinus 48 hours
maenas - Adult
reaction mass of 5-chloro- Acute EC50 0.048 mg/l Algae - Pseudokirchneriella 72 hours

2-methyl-2H-isothiazol- Subcapitata
3-one and 2-methyl-2H-
isothiazol-3-one (3:1)
Acute EC50 0.16 mg/l Daphnia 48 hours
Acute EC50 0.22 mg/l Fish - Oncorhynchus mykiss 96 hours
Conclusion/Summary : Not available.
12.2 Persistence and degradability
Product/ingredient name Test Result Dose Inoculum
Oxirane, methyl-, polymer OECD 301E >90 % - Readily - 28 days - -
with oxirane, 301E Ready
monoisotridecyl ether, block Biodegradability -
Modified OECD
Screening Test
ISO 14593 >60 % - Readily - 28 days - -
Isotridecanol, ethoxylated EU 301B Ready >60 % - Readily - 28 days - -
Biodegradability -
CO■ Evolution
Test
EU 311 >60 % - 60 days - -
Anaerobic
Biodegradation

of Organic
Compounds in
Digested Sludge
- Method by
Measurement of
Gas Production
reaction mass of 5-chloro- OECD 302B >90 % - 28 days - -
2-methyl-2H-isothiazol-
3-one and 2-methyl-2H-
isothiazol-3-one (3:1)
Conclusion/Summary : Not available.
Product/ingredient name Aquatic half-life Photolysis Biodegradability
sodium cumenesulphonate - - Readily
Oxirane, methyl-, polymer - - Readily
with oxirane,
monoisotridecyl ether, block
Isotridecanol, ethoxylated - - Readily
reaction mass of 5-chloro- - - Readily
2-methyl-2H-isothiazol-
3-one and 2-methyl-2H-
isothiazol-3-one (3:1)
12.3 Bioaccumulative potential
Product/ingredient name LogP BCF Potential
ow
Isotridecanol, ethoxylated - 232.5 low
CITRIC ACID -1.8 - low
12.4 Mobility in soil
Soil/water partition : Not available.
coefficient (K)
OC
Mobility : Not available.
12.5 Results of PBT and vPvB assessment
Date of issue/Date of revision :16/01/2023 Date of previous issue :22/06/2022 Version :2.0 12/15
Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)
2020/878
D8397172
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.

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, : None.

mixtures and articles
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 : No Chemical Safety Assessment has been carried out.
Assessment
SECTION 16: Other information
Indicates information that has changed from previously issued version.
Abbreviations and : ATE = Acute Toxicity Estimate
acronyms 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
Date of issue/Date of revision :16/01/2023 Date of previous issue :22/06/2022 Version :2.0 14/15
Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)
2020/878
D8397172
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
Date of printing : 16/01/2023
Date of issue/ Date of : 16/01/2023
revision
Date of previous issue : 22/06/2022
Version : 2.0
Notice to reader
To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.