

SAFETY DATA SHEET

Harpic Hygienic & Fresh Sticker Lavender



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

1.1 Product identifier

Product name : Harpic Hygienic & Fresh Sticker Lavender
SDS # : D8396453
Formulation # : FF3239069
Product type : Solid.

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

Identified uses

Toilet bowl cleaner Consumer use

1.3 Details of the supplier of the safety data sheet

Supplier

To be filled by local business.

Manufacturer

Reckitt Benckiser Tatabánya Kft.
2800 Tatabánya,
Fatelepi út 15,
Hungary
+36 34 513 770

e-mail address of person responsible for this SDS : To be filled by local business.

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number : To be filled by local business.

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]

Acute Tox. 4, H302

Skin Irrit. 2, H315

Eye Dam. 1, H318

Skin Sens. 1, H317

Aquatic Chronic 3, H412

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.

SECTION 2: Hazards identification

2.2 Label elements

Hazard pictograms

:



Signal word

: Danger

Hazard statements

: Harmful if swallowed.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
Harmful to aquatic life with long lasting effects.

Precautionary statements

General

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

Prevention

: Wash hands thoroughly after handling.

Response

: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical help. 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

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients

: Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts
LINALOOL
LINALYL ACETATE
EUCALYPTOL
DIMETHYLTETRAHYDRO BENZALDEHYDE
2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE
COUMARIN
CITRONELLOL
DELTA-DAMASCONE

Supplemental label elements

: Contains Citronellol, Coumarin, and Linalool. May produce an allergic reaction.

Special packaging requirements

Containers to be fitted with child-resistant fastenings

: Not applicable.

Tactile warning of danger

: Yes, applicable.

Ingredient declaration

Ingredient name	Concentration %
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	42.5
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	18.6
D-Glucitol, 1-deoxy-1-(methylamino)-, N-C8-10 acyl derivs.	0.825

30% and more: anionic surfactants. less than 5%: non-ionic surfactants
disinfectants

perfumes (ALPHA-ISOMETHYL IONONE, CITRONELLOL, COUMARIN, LIMONENE, and LINALOOL).

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.

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SECTION 2: Hazards identification

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 C10-13 Alkyl Benzenesulfonate	REACH #: 01-2119489428-22 EC: 270-115-0 CAS: 68411-30-3	≥25 - ≤50	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	ATE [Oral] = 404 mg/kg	[1]
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	REACH #: 01-2119489463-28 EC: 287-809-4 CAS: 85586-07-8	≥10 - ≤25	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	ATE [Oral] = 500 mg/kg Eye Dam. 1, H318: C ≥ 20% Eye Irrit. 2, H319: 10% ≤ C < 20%	[1]
SODIUM CARBONATE	REACH #: 01-2119485498-19 EC: 207-838-8 CAS: 497-19-8 Index: 011-005-00-2	≥1 - ≤3	Eye Irrit. 2, H319	-	[1]
LINALOOL	REACH #: 01-2119474016-42 EC: 201-134-4 CAS: 78-70-6 Index: 603-235-00-2	≥1 - ≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317	-	[1]
LINALYL ACETATE	REACH #: 01-2119454789-19 EC: 204-116-4 CAS: 115-95-7	≥0.3 - <1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317	-	[1]
EUCALYPTOL	REACH #: 01-2119967772-24 EC: 207-431-5 CAS: 470-82-6	≤0.3	Flam. Liq. 3, H226 Eye Irrit. 2, H319 Skin Sens. 1B, H317	-	[1]
DIMETHYLTETRAHYDRO BENZALDEHYDE	EC: 272-113-5 CAS: 68737-61-1	≤0.3	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	-	[1]
2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE	EC: 268-264-1 CAS: 68039-49-6	≤0.3	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	-	[1]
COUMARIN	REACH #: 01-2119943756-26 EC: 202-086-7 CAS: 91-64-5	≤0.3	Acute Tox. 3, H301 Skin Sens. 1B, H317	ATE [Oral] = 100 mg/kg	[1]
Allyl (3-methylbutoxy) acetate	REACH #: 01-2120794630-50	≤0.3	Acute Tox. 4, H302 Acute Tox. 2, H330	ATE [Oral] = 500 mg/kg	[1]

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SECTION 3: Composition/information on ingredients

CITRONELLOL	EC: 266-803-5 CAS: 67634-00-8		Skin Irrit. 2, H315	ATE [Inhalation (dusts and mists)] = 0.46 mg/l	
	REACH #: 01-2119453995-23 EC: 203-375-0 CAS: 106-22-9	≤0.3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317	-	[1]
DIPHENYL ETHER	EC: 202-981-2 CAS: 101-84-8	≤0.3	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 3, H412	M [Acute] = 1	[1] [2]
DELTA-DAMASCONONE	EC: 260-709-8 CAS: 57378-68-4	<0.1	Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 500 mg/kg M [Acute] = 1 M [Chronic] = 1	[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

[2] Substance with a workplace exposure limit

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. Wash with plenty of soap and 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. In the event of any complaints or symptoms, avoid further exposure. 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** : This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- 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.

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. 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). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and materials for containment and cleaning up

- Small spill** : Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. 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 : Toilet bowl cleaner 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

DIPHENYL ETHER

EU OEL (Europe, 1/2022)

STEL 15 minutes: 2 ppm.

STEL 15 minutes: 14 mg/m³.

TWA 8 hours: 1 ppm.

TWA 8 hours: 7 mg/m³.

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name

Sodium C10-13 Alkyl Benzenesulfonate

Result

DNEL - Workers - Long term - Inhalation

6 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

6 mg/m³

Effects: Local

DNEL - Workers - Long term - Dermal

85 mg/kg bw/day

Effects: Systemic

DNEL - General population - Consumers - Long term - Inhalation

1.5 mg/m³

Effects: Systemic

DNEL - General population - Consumers - Long term - Inhalation

1.5 mg/m³

Effects: Local

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SECTION 8: Exposure controls/personal protection

DNEL - General population - Consumers - Long term - Dermal

42.5 mg/kg bw/day

Effects: Systemic

DNEL - General population - Consumers - Long term - Oral

0.425 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Oral

0.425 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

1.3 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

7.6 mg/m³

Effects: Systemic

DNEL - General population - Long term - Dermal

42.5 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Dermal

119 mg/kg bw/day

Effects: Systemic

Sulfuric acid, mono-C12-16-alkyl esters,
sodium salts

DNEL - General population - Long term - Oral

24 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

85 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

285 mg/m³

Effects: Systemic

DNEL - General population - Long term - Dermal

2440 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Dermal

4060 mg/kg bw/day

Effects: Systemic

SODIUM CARBONATE

DNEL - General population - Long term - Inhalation

10 mg/m³

Effects: Local

DNEL - General population - Short term - Inhalation

10 mg/m³

Effects: Local

DNEL - Workers - Long term - Inhalation

10 mg/m³

Effects: Local

LINALOOL

DNEL - Workers - Long term - Dermal

15 mg/cm²

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Effects: Local

DNEL - Workers - Short term - Dermal

15 mg/cm²

Effects: Local

DNEL - General population - Consumers - Long term - Dermal

15 mg/cm²

Effects: Local

DNEL - Workers - Short term - Oral

1.2 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Dermal

1.25 mg/kg bw/day

Effects: Systemic

DNEL - General population - Short term - Dermal

1.5 mg/cm²

Effects: Local

DNEL - General population - Long term - Dermal

1.5 mg/cm²

Effects: Local

DNEL - General population - Long term - Oral

2.49 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Short term - Dermal

3 mg/cm²

Effects: Local

DNEL - Workers - Long term - Dermal

3 mg/cm²

Effects: Local

DNEL - Workers - Long term - Dermal

3.5 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

4.33 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

24.58 mg/m³

Effects: Systemic

LINALYL ACETATE

DNEL - General population - Long term - Oral

0.2 mg/kg bw/day

Effects: Systemic

DNEL - General population - Short term - Dermal

0.2362 mg/cm²

Effects: Local

DNEL - General population - Long term - Dermal

0.2362 mg/cm²

Effects: Local

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SECTION 8: Exposure controls/personal protection

	DNEL - Workers - Short term - Dermal 0.2362 mg/cm² <u>Effects</u>: Local DNEL - Workers - Long term - Dermal 0.2362 mg/cm² <u>Effects</u>: Local DNEL - General population - Long term - Inhalation 0.68 mg/m³ <u>Effects</u>: Systemic DNEL - General population - Long term - Dermal 1.25 mg/kg bw/day <u>Effects</u>: Systemic DNEL - Workers - Long term - Dermal 2.5 mg/kg bw/day <u>Effects</u>: Systemic DNEL - Workers - Long term - Inhalation 2.75 mg/m³ <u>Effects</u>: Systemic
EUCALYPTOL	DNEL - General population - Long term - Dermal 1 mg/kg bw/day <u>Effects</u>: Systemic DNEL - General population - Long term - Inhalation 1.74 mg/m³ <u>Effects</u>: Systemic DNEL - Workers - Long term - Dermal 2 mg/kg bw/day <u>Effects</u>: Systemic DNEL - Workers - Long term - Inhalation 7.05 mg/m³ <u>Effects</u>: Systemic DNEL - General population - Long term - Oral 600 mg/kg bw/day <u>Effects</u>: Systemic
COUMARIN	DNEL - General population - Long term - Oral 0.39 mg/kg bw/day <u>Effects</u>: Systemic DNEL - General population - Long term - Dermal 0.39 mg/kg bw/day <u>Effects</u>: Systemic DNEL - Workers - Long term - Dermal 0.79 mg/kg bw/day <u>Effects</u>: Systemic DNEL - General population - Long term - Inhalation 1.69 mg/m³ <u>Effects</u>: Systemic DNEL - Workers - Long term - Inhalation 6.78 mg/m³ <u>Effects</u>: Systemic

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SECTION 8: Exposure controls/personal protection

Allyl (3-methylbutoxy)acetate

DNEL - General population - Long term - Oral

0.5 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Dermal

0.5 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

0.87 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Dermal

1.4 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Inhalation

4.93 mg/m³

Effects: Systemic

CITRONELLOL

DNEL - Workers - Long term - Inhalation

161.6 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Dermal

327.4 mg/kg bw/day

Effects: Systemic

DNEL - General population - Consumers - Long term - Inhalation

47.8 mg/m³

Effects: Systemic

DNEL - General population - Consumers - Long term - Dermal

196.4 mg/kg bw/day

Effects: Systemic

DNEL - General population - Consumers - Long term - Oral

13.8 mg/kg bw/day

Effects: Systemic

DNEL - General population - Short term - Dermal

2.95 mg/cm²

Effects: Local

DNEL - Workers - Short term - Dermal

2.95 mg/cm²

Effects: Local

DNEL - General population - Short term - Inhalation

10 mg/m³

Effects: Local

DNEL - General population - Long term - Inhalation

10 mg/m³

Effects: Local

DNEL - Workers - Short term - Inhalation

10 mg/m³

Effects: Local

DNEL - Workers - Long term - Inhalation

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SECTION 8: Exposure controls/personal protection

	10 mg/m³ <u>Effects</u> : Local
	DNEL - General population - Long term - Oral 13.8 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Long term - Inhalation 47.8 mg/m³ <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Inhalation 161.6 mg/m³ <u>Effects</u> : Systemic
	DNEL - General population - Long term - Dermal 196.4 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Dermal 327.4 mg/kg bw/day <u>Effects</u> : Systemic
DIPHENYL ETHER	DNEL - Workers - Long term - Inhalation 7 mg/m³ <u>Effects</u> : Local
	DNEL - Workers - Short term - Inhalation 14 mg/m³ <u>Effects</u> : Local
	DNEL - Workers - Long term - Dermal 25 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Inhalation 59 mg/m³ <u>Effects</u> : Systemic
PNECs	
Product/ingredient name Sodium C10-13 Alkyl Benzenesulfonate	Result Fresh water - Assessment Factors 0.268 mg/l
	Marine water - Assessment Factors 0.027 mg/l
	Sewage Treatment Plant - Assessment Factors 3.43 mg/l
	Fresh water sediment - Assessment Factors 8.1 mg/kg
	Marine water sediment - Assessment Factors 6.8 mg/kg
	Soil - Sensitivity Distribution 35 mg/kg
LINALOOL	Fresh water - Assessment Factors 0.2 mg/l

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SECTION 8: Exposure controls/personal protection

Marine water - Assessment Factors

0.02 mg/l

Sewage Treatment Plant - Assessment Factors

10 mg/l

CITRONELLOL

Fresh water - Assessment Factors

0.002 mg/l

Marine water - Assessment Factors

0 mg/l

Soil - Equilibrium Partitioning

0.004 mg/kg dwt

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. Contaminated work clothing should not be allowed out of the workplace. 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+A1:2018
Tested for protection against chemical permeation.
Low chemical resistant or waterproof gloves.
EN 16523-1:2015+A1:2018 supersedes EN 374-3:2003)
EN 374-2:2019+A1:2018
Tested for protection against liquid penetration and micro-organisms.
EN 388:2016+A1:2018
Tested for protection against mechanical risks (abrasion, blade cut resistance, tear resistance and puncture resistance).
ISO 374-1:2016+A1:2018/Type A
Protective glove with permeation resistance of at least 30 minutes each for at least 6 test chemicals.
ISO 374-1:2016+A1:2018/Type B
Protective glove with permeation resistance of at least 30 minutes each for at least 3 test chemicals.
ISO 374-1:2016+A1:2018/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.

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SECTION 8: Exposure controls/personal protection

- 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** : Solid. [Block (Caged)]
- Color** : Purple.
- Odor** : Characteristic.
- 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** : Not available. [Conc. (% w/w): 100%]
- Viscosity** : Dynamic (room temperature): Not available.
Kinematic (room temperature): Not available.
Kinematic (40°C): Not available.
- Solubility** :

Media	Result
cold water	Easily soluble
hot water	Easily soluble

- Partition coefficient n-octanol/water (log Pow)** : Not relevant/applicable due to nature of the product.

- Relative vapor density** : Not relevant/applicable due to nature of the product.

- Vapor density** : Not relevant/applicable due to nature of the product.

Particle characteristics

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

9.2 Other information

9.2.1 Information with regard to physical hazard classes

9.2.2 Other safety characteristics

Not applicable.

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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

<u>Acute toxicity</u>	
Product/ingredient name	Result
Sodium C10-13 Alkyl Benzenesulfonate	Rat - Oral - LD50 1080 mg/kg <u>Toxic effects</u> : Behavioral - Ataxia Lung, Thorax, or Respiration - Respiratory depression Gastrointestinal - Hypermotility, diarrhea
	Rat - Oral - LD50 404 mg/kg <u>Toxic effects</u> : Eye - Lacrimation Behavioral - Somnolence (general depressed activity) Gastrointestinal - Hypermotility, diarrhea
SODIUM CARBONATE	Mouse - Female - Dermal - LD50 2210 mg/kg EU
	Rat - Oral - LD50 2800 mg/kg OECD SIDS Dossier
LINALOOL	Rat - Dermal - LD50 5610 mg/kg
	Rabbit - Dermal - LD50 5610 mg/kg
	Rat - Oral - LD50 2790 mg/kg
LINALYL ACETATE	Rat - Oral - LD50 13934 mg/kg <u>Toxic effects</u> : Behavioral - General anesthetic Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia
	Rabbit - Dermal - LD50 >5000 mg/kg
EUCALYPTOL	Rat - Oral - LD50 2480 mg/kg <u>Toxic effects</u> : Behavioral - Somnolence (general depressed

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SECTION 11: Toxicological information

	activity) Behavioral - Coma
CITRONELLOL	Rat - Oral - LD50 3450 mg/kg Rabbit - Dermal - LD50 2650 mg/kg
DIPHENYL ETHER	Rat - Oral - LD50 2450 mg/kg Toxic effects: Behavioral - Food intake (animal) Behavioral - Muscle weakness Gastrointestinal - Other changes Rabbit - Dermal - LD50 >7940 mg/kg Toxic effects: Behavioral - Somnolence (general depressed activity) Lung, Thorax, or Respiration - Acute pulmonary edema

Conclusion/Summary [Product] : Calculation method. Harmful if swallowed.

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)
P Statement alignment with PSER	692.5	N/A	N/A	N/A	230.2
Sodium C10-13 Alkyl Benzenesulfonate	404	N/A	N/A	N/A	N/A
Sulfuric acid, mono-C12-16-alkyl esters, sodium salts	500	N/A	N/A	N/A	N/A
SODIUM CARBONATE	2800	5000	N/A	N/A	N/A
LINALOOL	2790	5610	N/A	N/A	N/A
LINALYL ACETATE	13934	N/A	N/A	N/A	N/A
EUCALYPTOL	2480	N/A	N/A	N/A	N/A
DIMETHYLTETRAHYDRO BENZALDEHYDE	2500	2500	N/A	N/A	N/A
2,4-DIMETHYL-3-CYCLOHEXENE	2500	N/A	N/A	N/A	N/A
CARBOXALDEHYDE					
COUMARIN	100	N/A	N/A	N/A	N/A
Allyl (3-methylbutoxy)acetate	500	N/A	N/A	N/A	0.46
CITRONELLOL	3450	2650	N/A	N/A	N/A
DIPHENYL ETHER	2450	N/A	N/A	N/A	N/A
DELTA-DAMASCONE	500	N/A	N/A	N/A	N/A

Skin corrosion/irritation

Product/ingredient name	Result
Sodium C10-13 Alkyl Benzenesulfonate	Rabbit - Skin - Moderate irritant Amount/concentration applied: 0.5 Ml
LINALOOL	Guinea pig - Skin - Moderate irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 100 mg Human - Skin - Mild irritant Duration of treatment/exposure: 72 hours Amount/concentration applied: 32 % Man - Skin - Mild irritant Duration of treatment/exposure: 48 hours Amount/concentration applied: 16 mg

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SECTION 11: Toxicological information

LINALYL ACETATE

Rabbit - Skin - Mild irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

Rabbit - Skin - Severe irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 mg

Guinea pig - Skin - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 mg

Rabbit - Skin - Severe irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 mg

CITRONELLOL

Guinea pig - Skin - Severe irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 mg

Man - Skin - Moderate irritant

Duration of treatment/exposure: 48 hours

Amount/concentration applied: 16 mg

Rabbit - Skin - Moderate irritant

Duration of treatment/exposure: 4 hours

Amount/concentration applied: 0.42 %

Rabbit - Skin - Severe irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 mg

Rabbit - Skin - Severe irritant

Duration of treatment/exposure: 4 hours

Amount/concentration applied: 0.5 MI

DIPHENYL ETHER

Rabbit - Skin - Mild irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

Conclusion/Summary [Product] : Calculation method. Causes skin irritation.

Serious eye damage/eye irritation

Product/ingredient name

Sodium C10-13 Alkyl Benzenesulfonate

Result

In vivo - Eyes - Severe irritant

Not fully reversible within 21 days or more

SODIUM CARBONATE

Rabbit - Eyes - Mild irritant

Duration of treatment/exposure: 0.5 minutes

Amount/concentration applied: 100 mg

Rabbit - Eyes - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 mg

LINALOOL

Rabbit - Eyes - Moderate irritant

Duration of treatment/exposure: 1 hours

Amount/concentration applied: 0.1 MI

Rabbit - Eyes - Moderate irritant

Amount/concentration applied: 100 uL

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SECTION 11: Toxicological information

CITRONELLOL

Rabbit - Eyes - Moderate irritant

Amount/concentration applied: 0.42 %

Conclusion/Summary [Product] : Calculation method. Causes serious eye damage.

Respiratory corrosion/irritation

Not available.

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

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary [Product] : Calculation method. May cause an allergic skin reaction.

Respiratory

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

Germ cell mutagenicity

Not available.

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

Carcinogenicity

Not available.

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

Reproductive toxicity

Not available.

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

Specific target organ toxicity (single exposure)

Not available.

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 : Causes skin irritation. May cause an allergic skin reaction.

Ingestion : Harmful if swallowed.

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SECTION 11: Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

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 [Product]	: Based on available data, the classification criteria are not met.
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
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.

Conclusion/Summary [Product]	: The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.
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11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name

Sodium C10-13 Alkyl Benzenesulfonate

Result

Acute - LC50 - Fresh water

Fish - Rainbow trout, donaldson trout - *Oncorhynchus mykiss* - Juvenile (Fledgling, Hatchling, Weanling)
Age: 49 days; Weight: 403 mg
5 mg/l [96 hours]
Effect: Mortality

SODIUM CARBONATE

Acute - LC50 - Fresh water

Fish - Bluegill - *Lepomis macrochirus*
Size: 3.88 cm; Weight: 0.96 g
300000 µg/l [96 hours]
Effect: Mortality

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SECTION 12: Ecological information

	Acute - LC50 - Fresh water Crustaceans - Scud Order - <i>Amphipoda</i> 176000 µg/l [48 hours] <u>Effect</u>: Mortality Acute - EC50 - Fresh water Algae - Diatom - <i>Navicula seminulum</i> 242000 µg/l [96 hours] <u>Effect</u>: Population
LINALOOL	Acute - EC50 - Fresh water US EPA Daphnia - Water flea - <i>Daphnia magna</i> 36.7 ppm [48 hours] <u>Effect</u>: Intoxication Acute - LC50 - Fresh water US EPA Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i> 28.8 ppm [96 hours] <u>Effect</u>: Mortality
EUCALYPTOL	Acute - LC50 - Fresh water Fish - Fathead minnow - <i>Pimephales promelas</i> <u>Age</u>: 28 days; <u>Size</u>: 19.1 mm; <u>Weight</u>: 0.097 g 102000 µg/l [96 hours] <u>Effect</u>: Mortality
COUMARIN	Acute - LC50 - Fresh water Daphnia - Water flea - <i>Daphnia magna</i> <u>Age</u>: <24 hours 13500 µg/l [48 hours] <u>Effect</u>: Mortality Acute - LC50 - Fresh water Fish - Guppy - <i>Poecilia reticulata</i> <u>Age</u>: 3 to 4 weeks 56000 µg/l [96 hours] <u>Effect</u>: Mortality
DIPHENYL ETHER	Acute - LC50 - Fresh water Daphnia - Water flea - <i>Daphnia magna</i> <u>Age</u>: ≤24 hours 670 µg/l [48 hours] <u>Effect</u>: Mortality Acute - EC50 - Marine water Algae - Diatom - <i>Skeletonema costatum</i> 800 µg/l [96 hours] <u>Effect</u>: Population Acute - LC50 - Fresh water Fish - Bluegill - <i>Lepomis macrochirus</i> 1.7 mg/l [96 hours] <u>Effect</u>: Mortality

Conclusion/Summary [Product] : Calculation method. Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Product/ingredient name	Result
LINALOOL	62.4% [28 days] - Readily

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SECTION 12: Ecological information

Conclusion/Summary [Product] : The surfactant(s) contained in this preparation 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.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
LINALOOL	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Sodium C10-13 Alkyl Benzenesulfonate	3.32	-	Low
Sulfuric acid, mono-C12-16-alkyl esters, sodium salts	-2.42	-	Low
LINALOOL	2.84	-	Low
LINALYL ACETATE	3.9	173.9	Low
EUCALYPTOL	2.74	-	Low
COUMARIN	1.39	-	Low
CITRONELLOL	3.41	-	Low
DIPHENYL ETHER	4.21	200	Low

12.4 Mobility in soil

Soil/Water partition coefficient

Not available.

Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
Sodium C10-13 Alkyl Benzenesulfonate	No	No	No	No	No	No	No
Sulfuric acid, mono-C12-16-alkyl esters, sodium salts	No	No	No	No	No	No	No
SODIUM CARBONATE	No	No	No	No	No	No	No
LINALOOL	No	No	No	No	No	No	No
LINALYL ACETATE	No	No	No	No	No	No	No
EUCALYPTOL	No	No	No	No	No	No	No
DIMETHYLTETRAHYDRO BENZALDEHYDE	No	No	No	No	No	No	No
2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE	No	No	No	No	No	No	No
COUMARIN	No	No	No	No	No	No	No
Allyl (3-methylbutoxy)acetate	No	No	No	No	No	No	No
CITRONELLOL	No	No	No	No	No	No	No
DIPHENYL ETHER	No	No	No	No	No	No	No
DELTA-DAMASCONE	No	No	No	No	No	No	No

Mobility : Not available.

Conclusion/Summary : The product does not meet the criteria to be considered as a PMT or vPvM.

12.5 Results of PBT and vPvB assessment

Regulation (EC) No. 1907/2006 [REACH]

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SECTION 12: Ecological information

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
Sodium C10-13 Alkyl Benzenesulfonate	No	N/A	N/A	No	N/A	N/A	N/A
Sulfuric acid, mono-C12-16-alkyl esters, sodium salts	No	N/A	N/A	No	N/A	N/A	N/A
SODIUM CARBONATE	No	No	No	No	No	No	No
LINALOOL	No	N/A	N/A	No	N/A	N/A	N/A
LINALYL ACETATE	No	N/A	No	No	No	N/A	No
EUCALYPTOL	No	N/A	N/A	No	N/A	N/A	N/A
DIMETHYLTETRAHYDRO BENZALDEHYDE	No	N/A	N/A	No	N/A	N/A	N/A
2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE	No	N/A	N/A	No	N/A	N/A	N/A
COUMARIN	No	N/A	N/A	No	N/A	N/A	N/A
Allyl (3-methylbutoxy)acetate	No	N/A	N/A	No	N/A	N/A	N/A
CITRONELLOL	No	N/A	N/A	No	N/A	N/A	N/A
DIPHENYL ETHER	No	N/A	No	No	No	N/A	No
DELTA-DAMASCONE	No	N/A	N/A	No	N/A	N/A	N/A

Regulation (EC) No. 1272/2008 [CLP]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
Sodium C10-13 Alkyl Benzenesulfonate	No	No	No	No	No	No	No
Sulfuric acid, mono-C12-16-alkyl esters, sodium salts	No	No	No	No	No	No	No
SODIUM CARBONATE	No	No	No	No	No	No	No
LINALOOL	No	No	No	No	No	No	No
LINALYL ACETATE	No	No	No	No	No	No	No
EUCALYPTOL	No	No	No	No	No	No	No
DIMETHYLTETRAHYDRO BENZALDEHYDE	No	No	No	No	No	No	No
2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE	No	No	No	No	No	No	No
COUMARIN	No	No	No	No	No	No	No
Allyl (3-methylbutoxy)acetate	No	No	No	No	No	No	No
CITRONELLOL	No	No	No	No	No	No	No
DIPHENYL ETHER	No	No	No	No	No	No	No
DELTA-DAMASCONE	No	No	No	No	No	No	No

Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP] : The product does not meet the criteria to be considered as a PBT or vPvB.

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

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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.

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

No listed substance

Labeling : None

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Listed

Explosive precursors : Not applicable.

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
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF = Bioconcentration Factor
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EC50 = Half maximal effective concentration
EUH statement = CLP-specific Hazard statement
IATA = International Air Transport Association
LC50 = Median lethal concentration
LD50 = Median lethal dose
LogPow = logarithm of the octanol/water partition coefficient
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]
RID = The Regulations concerning the International Carriage of Dangerous Goods

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SECTION 16: Other information

by Rail
 RRN = REACH Registration Number
 SADT = Self-Accelerating Decomposition Temperature
 vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	Calculation method Calculation method Calculation method Calculation method Calculation method

Full text of abbreviated H statements

H226 H301 H302 H315 H317 H318 H319 H330 H400 H410 H411 H412	Flammable liquid and vapor. Toxic if swallowed. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye irritation. Fatal if inhaled. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.
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Full text of classifications [CLP/GHS]

Acute Tox. 2 Acute Tox. 3 Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1A Skin Sens. 1B	ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1A SKIN SENSITIZATION - Category 1B
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