

# SAFETY DATA SHEET



Finish Ultimate Plus All in 1 Lemon Sparkle

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

### 1.1 Product identifier

**Product name** : Finish Ultimate Plus All in 1 Lemon Sparkle  
**SDS no.** : D8404498  
**Formulation #** : 3259499 / 3282235, 3279113, 3280601, 3279226, 3279166, 3279222, 3279220, 3279219, 3279818, 3280869, 3280788, 3293400, 3293850, 3285665  
**Product type** : Solid. [tab]

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

#### Identified uses

Machine dishwashing (powder, liquid, tablet) for consumer use

### 1.3 Details of the supplier of the safety data sheet

#### Supplier

##### 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

#### National advisory body/Poison Centre

**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]

Skin Irrit. 2, H315  
Eye Irrit. 2, H319

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.

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## SECTION 2: Hazards identification

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

### 2.2 Label elements

**Hazard pictograms** :



**Signal word** : Warning

**Hazard statements** : Causes skin irritation.  
Causes serious eye irritation.

#### 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 ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.

**Storage** : Not applicable.

**Disposal** : Not applicable

**Supplemental label elements** : Contains Subtilisin. May produce an allergic reaction.

Contains  
15% or over but less than 30% oxygen-based bleaching agents  
5% or over but less than 15% non-ionic surfactants  
5% or over but less than 15% polycarboxylates, phosphonates  
Contains Enzymes (subtilisin, amylase), perfumes (Geraniol, Limonene)

#### 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 CARBONATE	REACH #: 01-2119485498-19 EC: 207-838-8 CAS: 497-19-8 Index: 011-005-00-2	≥10 - ≤25	Eye Irrit. 2, H319	-	[1]
SODIUM CARBONATE	REACH #:	≥10 - <25	Ox. Sol. 3, H272	ATE [Oral] = 1034	[1]

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### SECTION 3: Composition/information on ingredients

PEROXIDE	01-2119457268-30 EC: 239-707-6 CAS: 15630-89-4		Acute Tox. 4, H302 Eye Dam. 1, H318	mg/kg Eye Dam. 1, H318: C ≥ 25% Eye Irrit. 2, H319: 7.5% ≤ C < 25%	
PPG-5-LAURETH-5	CAS: 68439-51-0	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-	[1]
TETRASODIUM ETIDRONATE	REACH #: 01-2119647955-23 EC: 223-267-7 CAS: 3794-83-0	≤10	Acute Tox. 4, H302 Eye Irrit. 2, H319	ATE [Oral] = 940 mg/kg	[1]
SUBTILISIN	REACH #: 01-2119480434-38 EC: 232-752-2 CAS: 9014-01-1 Index: 647-012-00-8	<1	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 <b>See Section 16 for the full text of the H statements declared above.</b>	ATE [Oral] = 1800 mg/kg M [Acute] = 1	[1] [2]

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** : 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. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention if adverse health effects persist or are severe. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : 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. Get medical attention if adverse health effects persist or are severe. 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.

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## SECTION 4: First aid measures

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Over-exposure signs/symptoms

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

### 4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- 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  
nitrogen oxides  
sulfur oxides  
phosphorus 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.
- 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 spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised 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 spilt 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 material 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 the 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). Do not ingest. Avoid contact with eyes, skin and clothing. 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

Do not store above the following temperature: 30°C (86°F) [Daily average of 30° C]. 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. 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 unlabelled 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** : Machine dishwashing (powder, liquid, tablet) for consumer use
- Industrial sector specific solutions** : Not available.

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## 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

Product/ingredient name	Exposure limit values
SUBTILISIN	<b>NAOSH (Ireland, 5/2021). Skin sensitizer. Notes: Advisory Occupational Exposure Limit Values (OELVs)</b> OELV-8hr: 0.00006 mg/m <sup>3</sup> , (measured as 100% pure crystalline enzyme.) 8 hours. OELV-15min: 0.00006 mg/m <sup>3</sup> , (measured as 100% pure crystalline enzyme.) 15 minutes.

**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	Type	Exposure	Value	Population	Effects
SODIUM CARBONATE	DNEL	Long term Inhalation	10 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	10 mg/m <sup>3</sup>	General population	Local
SODIUM CARBONATE PEROXIDE	DNEL	Long term Inhalation	10 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	5 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	5 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Dermal	6.4 mg/cm <sup>2</sup>	General population	Local
	DNEL	Long term Dermal	6.4 mg/cm <sup>2</sup>	General population	Local
	DNEL	Short term Dermal	12.8 mg/cm <sup>2</sup>	Workers	Local
TETRASODIUM ETIDRONATE	DNEL	Long term Oral	2.4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	4.2 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	10 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	10 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	16.9 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	24 mg/kg bw/day	General population	Systemic
SUBTILISIN	DMEL	Long term Inhalation	15 ng/m <sup>3</sup>	General population	Local
	DMEL	Long term Inhalation	60 ng/m <sup>3</sup>	Workers	Local

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## SECTION 8: Exposure controls/personal protection

	DNEL	Inhalation Long term Oral	1.8 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	3.6 mg/kg bw/day	General population	Systemic

### PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
SODIUM CARBONATE PEROXIDE	Sewage Treatment Plant	16.24 mg/l	Assessment Factors
	Fresh water	0.035 mg/l	Assessment Factors
	Marine water	0.035 mg/l	Assessment Factors

## 8.2 Exposure controls

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### 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.

### 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.

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## SECTION 8: Exposure controls/personal protection

- 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. [tab: Granular solid.liquid]
- Colour** : Red. White. Yellow.
- Odour** : Not determined
- Melting point/freezing point** : Not determined
- Initial boiling point and boiling range** : Not relevant/applicable due to nature of the product.
- Flammability (solid, gas)** : Not determined
- Upper/lower flammability or explosive limits** : Not determined
- 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 determined
- pH** : 9.7 to 10.9 [Conc. (% w/w): 10%]
- Viscosity** : Not determined.
- Solubility(ies)** :

Media	Result
cold water	Easily soluble
hot water	Easily soluble

- Miscible with water** : Yes.
- Partition coefficient: n-octanol/water** : Not determined
- Vapour pressure** : Not relevant/applicable due to nature of the product.
- Evaporation rate** : Not determined
- Relative density** : Not determined.
- Vapour density** : Not determined
- Particle characteristics**
- Median particle size** : Not relevant/applicable due to nature of the product.

### 9.2 Other information

- SADT** : >55°C
- Heat of reaction** : <300 J/g

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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.
- Conditions of instability** : Do not expose to temperatures exceeding 50 °C/122 °F. Keep away from heat and direct sunlight. Protect from moisture.
- 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 CARBONATE	LD50 Dermal	Mouse - Female	2210 mg/kg	-
SODIUM CARBONATE PEROXIDE	LD50 Oral	Rat	2800 mg/kg	-
	LD50 Dermal	Rabbit	2001 mg/kg	-
PPG-5-LAURETH-5	LD50 Oral	Rat	1034 mg/kg	-
	LD50 Oral	Rat	2001 mg/kg	-
TETRASODIUM ETIDRONATE	LD50 Dermal	Rabbit - Male, Female	2001 mg/kg	-
	LD50 Oral	Rat	940 mg/kg	-
SUBTILISIN	LD50 Oral	Rat	1800 mg/kg	-
	LD50 Oral	Rat	1800 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 (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
FIL,FINSH,SS GOLDEN LEM FILL	4190.9	N/A	N/A	N/A	N/A
SODIUM CARBONATE	2800	5000	N/A	N/A	N/A
SODIUM CARBONATE PEROXIDE	1034	2001	N/A	N/A	N/A
PPG-5-LAURETH-5	2001	N/A	N/A	N/A	N/A
TETRASODIUM ETIDRONATE	940	2001	N/A	N/A	N/A
SUBTILISIN	1800	N/A	N/A	N/A	N/A

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
SODIUM CARBONATE	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
SUBTILISIN	Eyes - Moderate irritant	Rabbit	-	3 mg	-

#### Conclusion/Summary

**Skin** : Calculation method Causes skin irritation.

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## SECTION 11: Toxicological information

**Eyes** : Calculation method Causes serious eye irritation.

**Respiratory** : Based on available data, the classification criteria are not met.

### Sensitisation

#### **Conclusion/Summary**

**Skin** : Based on available data, the classification criteria are not met.

**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
SUBTILISIN	Category 3	-	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on likely routes of exposure** : Not available.

### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : Causes skin irritation.

**Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

**Inhalation** : No specific data.

**Skin contact** : Adverse symptoms may include the following:  
irritation  
redness

**Ingestion** : No specific data.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

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## SECTION 11: Toxicological information

**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 CARBONATE	Acute EC50 242000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute LC50 176000 µg/l Fresh water	Crustaceans - Amphipoda	48 hours
	Acute LC50 265000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 300000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute EC50 4.9 mg/l	Daphnia - Daphnia Pulex	48 hours
SODIUM CARBONATE PEROXIDE	Acute EC50 23.78 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
SUBTILISIN		Daphnia	48 hours
		Daphnia	21 days

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

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
PPG-5-LAURETH-5 SUBTILISIN	OECD 301D	60.1 % - Readily - 28 days	-	-
	OECD 301B	100 % - Readily - 29 days	-	-

**Conclusion/Summary** : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
PPG-5-LAURETH-5	-	-	Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
TETRASODIUM ETIDRONATE	-3	71	low
SUBTILISIN	-3.1	-	low

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

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## SECTION 12: Ecological information

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

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 minimised 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** : The classification of the product may meet the criteria for a hazardous waste.

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised 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 spilt 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
<b>14.1 UN number or ID number</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>14.2 UN proper shipping name</b>	-	-	-	-
<b>14.3 Transport hazard class(es)</b>	-	-	-	-
<b>14.4 Packing group</b>	-	-	-	-
<b>14.5 Environmental hazards</b>	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 authorisation**

**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
Skin Irrit. 2, H315 Eye Irrit. 2, H319	Calculation method Calculation method

**Full text of abbreviated H statements**

D8404498

## SECTION 16: Other information

H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

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

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Ox. Sol. 3	OXIDISING SOLIDS - Category 3
Resp. Sens. 1	RESPIRATORY SENSITISATION - Category 1
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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