

PRODUCT SAFETY DATA SHEET

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

1.1 Product identifier

Finish Quantum Infinity Shine

SDS number: D8387151 Code: 3174311 v2.0 / 3219120, 3219121, 3214431, 3240208

1.2. Relevant identified uses of the substance or mixture and uses advised against Automatic dishwashing detergents - household use 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: consumer.relations-ukroi@rb.com

The Republic Of Ireland:

RB Ireland Hygiene Home Commercial Ltd 7 Riverwalk Citywest Business Campus Dublin 24 Ireland Tel: 01 661 7318 Email: consumer.relations-ukroi@rb.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]

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.

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

2.2 Label elements

Date of issue/Date of revision

1/14

D8387151 v2.0

	IC	lentification
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 attention.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	Contains Subtilisin. May produce an allergic reaction.
		Ingredient Declaration:
		5- <15 % non-ionic surfactants
		5- <15 % oxygen-based bleaching agents,
		5- <15 % phosphonates
		5- <15 % polycarboxylates.
		Contains enzymes (Subtilisin, Amylase), Perfumes (Benzylbenzoate, Geraniol, Linalool)
Special packaging requirem	en	<u>ts</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Duodulot monto the pultania	:	This mixture does not contain any substances that are assessed to be a PBT or a
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII		vPvB.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре	
SODIUM CARBONATE	REACH #: 01-2119485498-19 EC: 207-838-8 CAS: 497-19-8 Index: 011-005-00-2	≥10 - ≤25	Acute Tox. 4, H312 Eye Irrit. 2, H319	[1]	
SODIUM CARBONATE PEROXIDE	REACH #: 01-2119457268-30 EC: 239-707-6 CAS: 15630-89-4	≥10 - <25	Ox. Sol. 3, H272 Acute Tox. 4, H302 Eye Dam. 1, H318	[1]	
(1-hydroxyethylidene) bisphosphonic acid, sodium salt	REACH #: 01-2119510382-52 EC: 249-559-4 CAS: 29329-71-3	≥10 - ≤15	Acute Tox. 4, H302 Eye Irrit. 2, H319	[1]	
Alcohols, C16-18, ethoxylated	EC: 500-212-8 CAS: 68439-49-6	≤10	Eye Irrit. 2, H319	[1]	
Alcohols, C12-14, ethoxylated propoxylated	CAS: 68439-51-0	≤5	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]	
SUBTILISIN	REACH #: 01-2119480434-38 EC: 232-752-2 CAS: 9014-01-1 Index: 647-012-00-8	≤0.3	Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1B, H334 STOT SE 3, H335 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411	[1]	
			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.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

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.

D8387151 v2.0

SECTION 4: First ai	SECTION 4: First aid measures				
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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.				
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 f	iron	I 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.
Date of issue/Date of revision		: 10/21/2021 Date of previous issue : 08/06/2021 Version : 2.0 4/14

D8387151 v2.0

SECTION 5: Firefight	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	equip	oment	and e	mer	<mark>jency</mark> p	rocedures	
_								

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	s :	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and materials f	for c	ontainment 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). 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

D8387151 v2.0

SECTION 7: Handling and storage

7.3 Specific end use(s)

Recommendations

- Industrial sector specific solutions
- : Washing and Cleaning Products 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	Туре	Exposure	Value	Population	Effects
SODIUM CARBONATE	DNEL	Long term Inhalation	10 mg/m³	Workers	Local
	DNEL	Short term	10 mg/m³	General	Local
		Inhalation	-	population	
				[Consumers]	
	DNEL	Short term	10 mg/m³	General	Local
		Inhalation		population	
	DNEL	Long term Inhalation	10 mg/m³	Workers	Local
SODIUM CARBONATE PEROXIDE	DNEL	Short term Dermal	6.4 mg/cm ²	General	Local
	DITE		0. 1 mg/ 0	population	2000
				[Consumers]	
	DNEL	Short term Dermal	12.8 mg/	Workers	Local
			cm ²		
	DNEL	Short term	5 mg/m ³	Workers	Local
		Inhalation	Ĭ		
TETRASODIUM ETIDRONATE	DNEL	Long term Oral	2.1 mg/kg	General	Systemic
		-	bw/day	population	
	DNEL	Long term	4.2 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Short term	10 mg/m³	General	Local
		Inhalation		population	
	DNEL	Long term	10 mg/m³	General	Local
		Inhalation		population	
	DNEL	Short term Inhalation	10 mg/m³	Workers	Local
	DNEL	Long term	10 mg/m³	Workers	Local
		Inhalation			
	DNEL	Long term	16.9 mg/m ³	Workers	Systemic
		Inhalation	0.4 m c //	Conorol	Curata and in
	DNEL	Long term Dermal	24 mg/kg	General	Systemic
		Long torm Dormal	bw/day	population	Sustamia
	DNEL	Long term Dermal	48 mg/kg bw/day	Workers	Systemic
SODIUM SILICATE	DNEL	Long term Oral	0.8 mg/kg	General	Systemic
	DINEL		bw/day	population	Systemic
	DNEL	Long term Dermal	0.8 mg/kg	General	Systemic
		Long term Derma	bw/day	population	Cysternic
	DNEL	Long term	1.38 mg/m ³	General	Systemic
		Inhalation		population	e,0001110
	DNEL	Long term Dermal	1.59 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term	5.61 mg/m ³	Workers	Systemic
		Inhalation		*	,

SECTION 8: Exposure controls/personal protection

PNECs

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

D8387151 v2.0

SECTION 8: Exposure controls/personal protection

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

		• •
9.1 Information on basic physica	l a	nd chemical properties
<u>Appearance</u>		
Physical state	:	Solid.
Color	:	Blue. White. Red.
Odor	1	Not determined
Odor threshold	:	Not determined
рН	:	10.62 [Conc. (% w/w): 1%]
Melting point/freezing point	:	Not determined
Initial boiling point and boiling range	:	Not determined
Flash point	:	Not determined
Evaporation rate	:	Not determined
Flammability (solid, gas)	:	Not determined
Upper/lower flammability or explosive limits	:	Not determined
Vapor pressure	:	Not determined
Vapor density	1	Not determined
Relative density	:	Not determined
Solubility(ies)	:	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/ water	:	Not determined
Decomposition temperature	:	Not determined
Viscosity	:	Not determined.
Explosive properties	:	Not determined
Oxidizing properties	:	Not determined
9.2 Other information		
Auto-ignition temperature	:	Not available.
SADT		>55°C
Heat of reaction	:	<300 J/g
SECTION 40. Stability		d voo otivity

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 Conditions of instability	The product is stable.Do not expose to temperatures exceeding 50°C/122°F.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Keep away from heat and direct sunlight. Protect from moisture.
10.5 Incompatible materials	: No specific data.

Date of issue/Date of revision

8/14

D8387151 v2.0

SECTION 10: Stability and reactivity

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 toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
SODIUM CARBONATE	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	2800 mg/kg	-
SODIUM CARBONATE PEROXIDE	LD50 Oral	Rat	1034 mg/kg	-
(1-hydroxyethylidene) bisphosphonic acid, sodium salt	LD50 Oral	Rat	1100 mg/kg	-
Alcohols, C16-18, ethoxylated	LD50 Oral	Rat	>2000 mg/kg	-
Alcohols, C12-14, ethoxylated propoxylated	LD50 Oral	Rat	>2000 mg/kg	-
SUBTILISIN	LD50 Oral	Rat	3700 mg/kg	-

Conclusion/Summary

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

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Finish Quantum Infinity Shine sodium carbonate disodium carbonate, compound with hydrogen	4371.5 2800 1034	7281.6 2000 N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A
peroxide (2:3) (1-hydroxyethylidene)bisphosphonic acid, sodium salt	1100	N/A	N/A	N/A	N/A
Subtilisin	3700	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	-		
		Datati		100 mg			
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-		
Alcohols, C16-18,	Eyes - Moderate irritant	Rabbit	-	mg 24 hours 100	-		
ethoxylated	-			microliters			
SODIUM SILICATE	Eyes - Severe irritant	Rabbit	-	24 hours 10	-		
	Skin - Severe irritant	Rabbit	_	mg 24 hours 500	_		
		Rabbit		mg			
SUBTILISIN	Eyes - Moderate irritant	Rabbit	-	3 milligrams	-		
Conclusion/Summary	·	·		·			
Skin	: Based on Calculation Method: Causes skin irritation.						
Eyes	: Based on Calculation Method: Causes serious eye irritation.						
Respiratory	: Based on available data, the classification criteria are not met.						

Skin

Sensitization

Conclusion/Summary

SECTION 11: Toxicological information

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 torget orgen toxic	(cingle expecture)

Specific target organ toxicity (single exposure)

Product/ing	redient name	Category	Route of exposure	Target organs
SODIUM SILICATE		Category 3	-	Respiratory tract
SUBTILISIN		Category 3	-	irritation Respiratory tract irritation
Specific target organ toxic	ty (repeated exposure)			
Not available.				
Aspiration hazard Not available.				
Information on the likely routes of exposure	: Not available.			
Potential acute health effect	<u>s</u>			
Eye contact	: Causes serious eye irrita	ition.		
Inhalation	: No known significant effe	ects or critical hazar	ds.	
Skin contact	: Causes skin irritation.			
Ingestion	: No known significant effe	ects or critical hazar	ds.	
Symptoms related to the phy	vsical, chemical and toxico	logical characteris	tics	
Eye contact	: Adverse symptoms may pain or irritation watering redness	include the followin	g:	
Inhalation	: No specific data.			
Skin contact	: Adverse symptoms may irritation redness	include the followin	g:	
Ingestion	: No specific data.			
Delayed and immediate offe	to and also obveria offects	from chart and la		
Delayed and immediate efference Short term exposure	LIS AND AISO CHITOMIC EITECIS	and in short and io	my term exposur	<u>E</u>
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 eff	ects			
Conclusion/Summary	: Based on available data,	the classification c	riteria are not met.	
General	: No known significant effe	ects or critical hazar	ds.	

Date of issue/Date of revision

D8387151 v2.0

SECTION 11: Toxicological information

- Carcinogenicity **Mutagenicity**
- : No known significant effects or critical hazards.
- **Reproductive toxicity**
- : No known significant effects or critical hazards.
 - : No known significant effects or critical hazards.

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 Acute LC50 176000 µg/l Fresh water Acute LC50 265000 µg/l Fresh water Acute LC50 300000 µg/l Fresh water	Algae - Navicula seminulum Crustaceans - Amphipoda Daphnia - Daphnia magna Fish - Lepomis macrochirus	96 hours 48 hours 48 hours 96 hours
SODIUM CARBONATE PEROXIDE	Acute EC50 4.9 mg/l	Daphnia - Daphnia Pulex	48 hours
SODIUM SILICATE	Acute EC50 33.53 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
SUBTILISIN	Acute LC50 494000 µg/l Fresh water Acute EC50 23.78 mg/l Fresh water	Daphnia - Daphnia magna Crustaceans - Ceriodaphnia dubia - Neonate	48 hours 48 hours
Conclusion/Summary	: Based on available data, the classific	ation criteria are not met.	

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Alcohols, C16-18, ethoxylated	OECD 303A 303A Simulation Test - Aerobic Sewage Treatment - Activated Sludge Units OECD 301B28 301B Ready Biodegradability - CO ₂ Evolution Test	90 % - Readily - 28 days >60 % - Readily - 28 days	-	-
Conclusion/Summary	: Not available.			

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Alcohols, C16-18, ethoxylated	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
TETRASODIUM ETIDRONATE	-3	71	low
SUBTILISIN	-3.1	-	low

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not availa
Mobility	

able.

Mobility

: Not available.

SECTION 12: Ecological information

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 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	: 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 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	ΙΑΤΑ
14.1 UN 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.

user

14.6 Special precautions for : 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 Transport in bulk according to IMO instruments

: Not available.

D8387151 v2.0

SECTION 15: Regulatory information

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

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 : None on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

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

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.	\checkmark	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	Calculation method
Eye Irrit. 2, H319	Calculation method

Full text of abbreviated H statements

H272	May intensify fire; oxidizer.
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.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Date of issue/Date of revision

Date of previous issue

D8387151 v2.0

SECTION 16: Othe	r information	
Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Eye Dam. 1 Eye Irrit. 2 Ox. Sol. 3 Resp. Sens. 1B Skin Irrit. 2 STOT SE 3		ACUTE TOXICITY - Category 4 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 OXIDIZING SOLIDS - Category 3 RESPIRATORY SENSITIZATION - Category 1B SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3
Date of printing	: 10/21/2021	
Date of issue/ Date of revision	: 10/21/2021	
Date of previous issue	: 08/06/2021	
Version	: 2.0	
Notice to reader		

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed 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.