

## **PRODUCT SAFETY DATA SHEET**

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

#### **1.1 Product identifier**

AIR WICK Aerosol-Free Automatic Spray Fresh Cotton

SDS number: D8396685 v2.0 Code: 3217487 v1.0 / 3230098, 3228480

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

Air care, instant action (aerosol sprays) Professional use See Annex to the Safety data sheet for additional information in the Exposure Scenario(s)

#### 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]

 Flam. Liq. 3, H226

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended. See Section 16 for the full text of the H statements declared above.

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

#### 2.2 Label elements

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Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	Flammable liquid and vapor.
Precautionary statements		
General	1	Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Use only as directed.
Response	:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	:	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Disposal	:	Not applicable
Supplemental label elements	1	Not applicable.
Special packaging requirem	en	<u>its</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	1	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	1	None known.

## **SECTION 3: Composition/information on ingredients**

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
ALCOHOL	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥25 - <50	Flam. Liq. 2, H225 Eye Irrit. 2, H319	Eye Irrit. 2, H319: C ≥ 50%	[1] [2]
			See Section 16 for the full text of the H statements declared above.		

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

Type

[1] Substance classified with a health or environmental hazard [2] Substance with a workplace exposure limit

## **SECTION 3: Composition/information on ingredients**

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. Get medical attention if irritation occurs.	
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
Skin contact	<ul> <li>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</li> </ul>	
Ingestion	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.	

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

Over-exposure signs/symptoms

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

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

Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.

#### **SECTION 5: Firefighting measures**

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	from the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
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, pro	te	ctive 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and materials for	r c	ontainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

## **SECTION 7: Handling and storage**

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

#### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. 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**

Do not store above the following temperature: 40°C (104°F). Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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.

#### Seveso Directive - Reporting thresholds (in tonnes)

#### Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
P5c	5000	50000

#### 7.3 Specific end use(s)

Recommendations	:	Air care, instant action (aerosol sprays) Professional use See Annex to the Safety data sheet for additional information in the Exposure Scenario(s).
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**

Product/ingredient name	Exposure limit values
ALCOHOL	<b>EU OEL (Europe, 12/2011).</b> TWA: 1000 ppm 8 hours. TWA: 1920 mg/m³ 8 hours.
procedures Europ asses value atmos of exp (Work for the	rence should be made to monitoring standards, such as the following: bean Standard EN 689 (Workplace atmospheres - Guidance for the ssment of exposure by inhalation to chemical agents for comparison with limit s and measurement strategy) European Standard EN 14042 (Workplace spheres - Guide for the application and use of procedures for the assessment bosure to chemical and biological agents) European Standard EN 482 kplace atmospheres - General requirements for the performance of procedures e measurement of chemical agents) Reference to national guidance ments for methods for the determination of hazardous substances will also be red.

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
ALCOHOL	DNEL	Short term Inhalation	1900 mg/ m³	Workers	Local
	DNEL	Long term Oral	87 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	114 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	206 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	343 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	950 mg/m³	General population	Local
te of issue/Date of revision : 11/	09/2023	Date of previous issue	: 21/08/2	023 Ve	rsion : 2 5/1

# DNEL Long term 950 mg/m³ Workers Systemic DNEL DNEL Short term 1900 mg/ Workers Local

#### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
ALCOHOL	Fresh water Marine water Sewage Treatment Plant	0.96 mg/l 0.79 mg/l 580 mg/l	Assessment Factors Assessment Factors Assessment Factors
	Fresh water sediment Marine water sediment	3.6 mg/kg dwt 2.9 mg/kg dwt	Equilibrium Partitioning Equilibrium Partitioning

8.2 Exposure controls	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection meas	<u>ures</u>
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: safety glasses with side-shields.
Skin protection	
Hand protection	<ul> <li>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.</li></ul>

## **SECTION 8: Exposure controls/personal protection**

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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
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

<u>Appearance</u>		
Physical state	1	Liquid.
Color	1	Clear. Colorless.
Odor	1	Floral.
Melting point/freezing point	1	Not relevant/applicable due to nature of the product.
Initial boiling point and boiling range	:	>75°C (>167°F)
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	1	Closed cup: 24°C (75.2°F)
Auto-ignition temperature	4	Not relevant/applicable due to nature of the product.
Decomposition temperature	4	Not relevant/applicable due to nature of the product.
рН	4	Not applicable. Product is non-soluble (in water).
Viscosity	1	Not relevant/applicable due to nature of the product.
Solubility(ies)	1	
Media		Result
cold water		Easily soluble
hot water		Easily soluble
Partition coefficient: n-octanol/ water	:	Not relevant/applicable due to nature of the product.
Vapor pressure	:	Not determined
Density	:	0.9 to 0.94 g/cm³ [20°C (68°F)]
Vapor density	1	Not relevant/applicable due to nature of the product.
Particle characteristics		
Median particle size	1	Not relevant/applicable due to nature of the product.

## **SECTION 10: Stability and reactivity**

10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
10.5 Incompatible materials	:	Reactive or incompatible with the following materials: oxidizing materials
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
ALCOHOL	LC50 Inhalation Vapor	Rat	124700 mg/m³	4 hours
	LD50 Oral	Rat	7 g/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)
ALCOHOL	7000	N/A	N/A	124.7	N/A

#### Irritation/Corrosion

Result	Species	Score	Exposure	Observation	
Eyes - Mild irritant	Rabbit	-	24 hours 500	-	
Free Madanata imitant	Data		mg		
Eyes - Moderate Imtant	Rappil	-	minutes 100	-	
			mg		
	Rabbit	-		-	
		-	•	-	
Skin - Moderate irritant	Rabbit	-		-	
			mg		
: Based on available data, the classification criteria are not met.					
: Based on available data, the classification criteria are not met.					
: Based on available data, the classification criteria are not met.					
: Based on available data, the classification criteria are not met.					
: Based on available data, the classification criteria are not met.					
: Based on available data, th	ie classification o	interna are	e not met.		
: Based on available data, th	te classification o	interna are	e not met.		
-	Eyes - Moderate irritant Eyes - Moderate irritant Skin - Mild irritant Skin - Moderate irritant : Based on available data, th : Based on available data, th : Based on available data, th	Eyes - Moderate irritant       Rabbit         Eyes - Moderate irritant       Rabbit         Skin - Mild irritant       Rabbit         Skin - Moderate irritant       Rabbit         Based on available data, the classification of       Based on available data, the classification of         Based on available data, the classification of       Based on available data, the classification of	Eyes - Moderate irritant       Rabbit       -         Eyes - Moderate irritant       Rabbit       -         Skin - Mild irritant       Rabbit       -         Skin - Moderate irritant       Rabbit       -         Based on available data, the classification criteria are       -         Based on available data, the classification criteria are       -         Based on available data, the classification criteria are       -         Based on available data, the classification criteria are       -         Based on available data, the classification criteria are       -	Eyes - Moderate irritantRabbit-mg 0.0666666667 minutes 100 mg 100 uL 400 mg 24 hours 20 mgEyes - Moderate irritantRabbit-100 uL 400 mg 24 hours 20 mgSkin - Moderate irritantRabbit-24 hours 20 mg: Based on available data, the classification criteria are not met.: Based on available data, the classification criteria are not met.: Based on available data, the classification criteria are not met.: Based on available data, the classification criteria are not met.	

Date of issue/Date of revision

## **SECTION 11: Toxicological information**

SECTION 11: TOXICO	logical information
<b>Carcinogenicity</b>	
<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.
Reproductive toxicity	
<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.
<b>Teratogenicity</b>	
<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.
Specific target organ toxicit	t <u>y (single exposure)</u>
Not available.	
Specific target organ toxici	tv (repeated exposure)
Not available.	
Accession beyond	
Aspiration hazard	
Not available.	
Information on the likely routes of exposure	: Not available.
Potential acute health effects	-
Eye contact	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Skin contact	No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Symptoms related to the phy	vsical, chemical and toxicological characteristics
Eye contact	: No specific data.
Inhalation	No specific data.
Skin contact	No specific data.
Ingestion	No specific data.
ingestion	
Delayed and immediate effect	ts and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate	: Not available.
effects	
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate	: Not available.
effects	
Potential delayed effects	: Not available.
Potential chronic health eff	BCTS
Not available.	
<b>Conclusion/Summary</b>	: 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 hazards11.2.1 Endocrine disrupting propertiesNot available.

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## **SECTION 11: Toxicological information**

#### 11.2.2 Other information

Not available.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
ALCOHOL	Acute EC50 3306 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 1074 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute LC50 5680 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 11000000 μg/l Marine water	Fish - Alburnus alburnus	96 hours
	Chronic NOEC 4.995 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - Daphnia magna - Neonate	21 days

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

#### 12.2 Persistence and degradability

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

#### **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
ALCOHOL	-0.35	-	low

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
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 a Disposal of this product, solutions an with the requirements of environmer any regional local authority requirem	nd any by-products sl ntal protection and wa	hould at all time aste disposal le	es com egislatio	on and
	any regional local authority requirem products via a licensed waste dispos untreated to the sewer unless fully c with jurisdiction.	sal contractor. Waste	e should not be	dispo	sed of
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## **SECTION 13: Disposal considerations**

**Hazardous waste** 

: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

#### European waste catalogue (EWC)

Waste code	Waste designation	
20 03 01	mixed municipal 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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. 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 or ID number	UN1993	UN1993	UN1993	UN1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (ALCOHOL)	FLAMMABLE LIQUID, N.O.S. (ALCOHOL)	FLAMMABLE LIQUID, N.O.S. (ethanol)	Flammable liquid, n.o. s. (ethanol)
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	111	111	111	111
14.5 Environmental hazards	No.	No.	No.	No.

#### Additional information

ADR/RID	:	<u>Hazard identification number</u> 30 <u>Limited quantity</u> 5 L <u>Special provisions</u> 274, 601 <u>Tunnel code</u> (D/E)
ADN	:	Special provisions 274, 601
IMDG	:	Emergency schedules F-E, _S-E_ Special provisions 223, 274, 955
ΙΑΤΑ	:	<b>Quantity limitation</b> Passenger and Cargo Aircraft: 60 L. Packaging instructions: 355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities - Passenger Aircraft: 10 L. Packaging instructions: Y344. <b>Special provisions</b> A3
14.6 Special precautions for user	:	<b>Transport within user's premises:</b> 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.

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#### **SECTION 14: Transport information**

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

#### **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.

Persistent Organic Pollutants Not listed.

#### **Seveso Directive**

This product is controlled under the Seveso Directive.

Danger criteria	
Category	
P5c	

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	<ul> <li>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</li> </ul>
	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
Flam. Liq. 3, H226	On basis of test data.

#### Full text of abbreviated H statements

Date of issue/Date of revision

SECTION 16: Other information			
H225 H226 H319		Highly flammable liquid and vapor. Flammable liquid and vapor. Causes serious eye irritation.	
Full text of classifications	[CLP/GHS]		
Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3		SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3	
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Date of previous issue	: 21/08/2023		
Version	: 2		

#### 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.

## **PRODUCT SAFETY DATA SHEET**



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

#### **1.1 Product identifier** Finish Quantum Ultimate 0%

SDS number: D8387923 Code: FF3170248

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

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

#### The Republic Of Ireland:

RB Ireland Hygiene Home Commercial Ltd 7 Riverwalk Citywest Business Campus Dublin 24 Ireland

1.4 Emergency telephone numberRB UK Contact Telephone: 0800 376 81819 am - 5 pm weekdaysRB ROI Contact Telephone: 01 66173189 am - 5 pm weekdays

**RB email:** consumer.relations-ukroi@rb.com **Poisons Information Centre of Ireland:** 01 809 2166 8am-10pm 7 days a week.

#### Additional useful information

Reason of Revision : Addition of professional use. Revision date and number : 09/12/2022 v2

Supersedes : < v1 >

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## **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

2.2 Label elements

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		
Hazard pictograms	÷	$\wedge$
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.
		Ingredient Declaration:
		5- <15 % non-ionic surfactants
		5- <15 % oxygen-based bleaching agents
		5- <15 % polycarboxylates.
		<5% phosphonates
		Contains enzymes (Subtilisin, Amylase)
Special packaging requirem	en	ts
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.

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## **SECTION 2: Hazards identification**

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

: Mixture

There are no 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.

## SECTION 4: First aid measures

4.1 Description of first aid r	asures
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 no 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 ge medical attention immediately. Maintain an open airway. Loosen tight clothing sucl 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	e an extinguishing agent suitable for the surrounding fire.	
Unsuitable extinguishing media	ne known.	
5.2 Special hazards arising f	substance or mixture	
Hazards from the substance or mixture	specific fire or explosion hazard.	
Hazardous combustion products	composition products may include the following materials: bon dioxide bon monoxide ogen oxides fur oxides sphorus oxides tal oxide/oxides	
5.3 Advice for firefighters		
Special protective actions for fire-fighters	mptly isolate the scene by removing all persons from the vicinity of re is a fire. No action shall be taken involving any personal risk or v able training.	
Special protective equipment for fire-fighters	e-fighters should wear appropriate protective equipment and self-co athing apparatus (SCBA) with a full face-piece operated in positive de. Clothing for fire-fighters (including helmets, protective boots an forming to European standard EN 469 will provide a basic level of p mical incidents.	pressure d gloves)

## **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	ote	ctive 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	co	ntainment 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.
Date of issue/Date of revision		: 08/12/2022 Date of previous issue : No previous validation Version : 1 4/14

## **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). 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 Professional use See Annex to the Safety data sheet for additional information in the Exposure Scenario(s).
Industrial sector specific solutions	: Not available.

#### **SECTION 8: Exposure controls/personal protection**

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

#### 8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
SODIUM CARBONATE	DNEL	Long term	10 mg/m <sup>3</sup>	General	Local
		Inhalation		population	
	DNEL	Short term	10 mg/m³	General	Local
		Inhalation		population	
	DNEL	Long term	10 mg/m³	Workers	Local
		Inhalation			
SODIUM CARBONATE PEROXIDE	DNEL	Short term	5 mg/m³	Workers	Local
		Inhalation			
	DNEL	Long term	5 mg/m³	Workers	Local
		Inhalation			
	DNEL	Short term Dermal	6.4 mg/cm <sup>2</sup>	General	Local
				population	
	DNEL	Long term Dermal	6.4 mg/cm <sup>2</sup>	General	Local
				population	
	DNEL	Short term Dermal	12.8 mg/	Workers	Local
			cm²		
	DNEL	Long term Dermal	12.8 mg/	Workers	Local
te of issue/Date of revision : 08/12/2022 Date of previous issue : No previous validation Version : 1 5/14					

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## **SECTION 8: Exposure controls/personal protection**

Control of Exposure con	Le non d. Exposure controls/personal protection				
			Cm <sup>2</sup>		
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/m³	General population	Local
	DNEL	Long term Inhalation	10 mg/m³	Workers	Local
	DNEL	Long term Inhalation	16.9 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	24 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	48 mg/kg bw/day	Workers	Systemic
SUBTILISIN	DMEL	Long term Inhalation	15 ng/m³	General population	Local
	DMEL	Long term Inhalation	60 ng/m³	Workers	Local
	DNEL	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
		0.035 mg/l 0.035 mg/l	Assessment Factors Assessment Factors

#### 8.2 Exposure controls

o.z Exposure controis	
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection meas	<u>ures</u>
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	<ul> <li>EN 16523-1:2015 <ul> <li>Tested for protection against chemical permeation.</li> <li>Low chemical resistant or waterproof gloves.</li> <li>(EN 16523-1:2015 supersedes EN 374-3:2003)</li> <li>EN 374-2:2003</li> <li>Tested for protection against liquid penetration and micro-organisms.</li> <li>EN 388:2003</li> <li>Tested for protection against mechanical risks (abrasion, blade cut resistance, tear resistance and puncture resistance).</li> <li>ISO 374-1:2016/Type A</li> <li>Protective glove with permeation resistance of at least 30 minutes each for at least 6 test chemicals.</li> <li>ISO 374-1:2016/Type B</li> </ul> </li> </ul>

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## **SECTION 8: Exposure controls/personal protection**

	Protective glove with permeation resistance of at least 30 minutes each for at least 3 test chemicals. ISO 374-1:2016/Type C Protective glove with permeation resistance of at least 10 minutes for at least 1 test chemical. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Environmental exposure controls	<ul> <li>Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.</li> <li>In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.</li> </ul>

## **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

<u>Appearance</u>		
Physical state	:	Solid.
Colour	:	White. Green. Red.
Odour	:	Not available.
Odour threshold	:	Not relevant/applicable due to nature of the product.
Melting point/freezing point	:	Not relevant/applicable due to nature of the product.
Initial boiling point and boiling range	:	Not relevant/applicable due to nature of the product.
Flammability (solid, gas)		Not relevant/applicable due to nature of the product.
Upper/lower flammability or explosive limits	:	Not relevant/applicable due to nature of the product.
Flash point	:	Not relevant/applicable due to nature of the product.
Auto-ignition temperature	:	Not relevant/applicable due to nature of the product.
Decomposition temperature	1	Not relevant/applicable due to nature of the product.
pH	1	10.2 [Conc. (% w/w): 10%]
Viscosity	:	Not relevant/applicable due to nature of the product.
Solubility(ies)	:	
Media		Result
cold water hot water		Easily soluble Easily soluble
Partition coefficient: n-octanol/ water	:	Not relevant/applicable due to nature of the product.
Vapour pressure	:	Not determined.
Vapour density	:	Not relevant/applicable due to nature of the product.
Date of issue/Date of revision	:0	8/12/2022 Date of previous issue : No previous validation Version : 1 7/1

SECTION 9: Physica	al and chemical properties
Particle characteristics	· ·
Median particle size	: > 10 µm
9.2 Other information	
SADT	: >55°C
Heat of reaction	: <300 J/g
SECTION 10: Stabili	ty 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.
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	-
	LD50 Oral	Rat	2800 mg/kg	-
SODIUM CARBONATE PEROXIDE	LD50 Dermal	Rabbit	2001 mg/kg	-
	LD50 Oral	Rat	1034 mg/kg	-
Fatty alcohol alkoxylate	LD50 Oral	Rat	500 mg/kg	-
Oxirane, 2-methyl-, polymer with oxirane, mono	LD50 Oral	Rat - Male, Female	2000 to 5000 mg/kg	-
(2-propylheptyl) ether			mg/ng	
2,3-Oxiranedicarboxylic acid, sodium salt (1:2), homopolymer	LD50 Dermal	Rabbit	>5000 mg/kg	-
nonopolymor	LD50 Oral	Rat	>5000 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	-

Conclusion/Summary

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

Acute toxicity estimates

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## **SECTION 11: Toxicological information**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
FIL,FINSH,SU GL 2.0 EU_FF3170248_D8387923 (EU)	2894.5	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
Fatty alcohol alkoxylate	500	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	-
	Eyes - Moderate irritant	Rabbit		100 mg 24 hours 100	
	Eyes - Moderate Initalit	Rappit	-	mg	-
Oxirane, 2-methyl-, polymer	Eyes - Irritant	Rabbit	-	-	-
with oxirane, mono					
(2-propylheptyl) ether	Skin - Moderate irritant	Rabbit	_	-	_
SUBTILISIN	Eyes - Moderate irritant	Rabbit	-	3 mg	-
Conclusion/Summary			•		
Skin	: Causes skin irritation. Calcula	ation method			
Eyes	: Causes serious eye irritation. Calculation method				
Respiratory	: Based on available data, the classification criteria are not met.				
Sensitisation					
<b>Conclusion/Summary</b>					
Skin	: Based on available data, the	classification c	riteria are	not met.	
Respiratory	: Based on available data, the	classification c	riteria are	not met.	
Mutagenicity					
<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.				
Carcinogenicity					
<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.				
Reproductive toxicity					
<b>Conclusion/Summary</b>	: Based on available data, the	classification c	riteria are	not met.	
Teratogenicity					
<b>Conclusion/Summary</b>	: Based on available data, the	classification c	riteria are	not met.	

#### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
2,3-Oxiranedicarboxylic acid, sodium salt (1:2), homopolymer SUBTILISIN	Category 3 Category 3	-	Respiratory tract irritation Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

SECTION 11: Toxicological information				
Information on likely rout of exposure	es : Not available.			

## Potential acute health effects

- otoritial acato ilouitit	
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 effec	ts as well as chronic effects from short and long-term exposure
<u>Short term exposure</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 effe	ects
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 propertiesNot available.11.2.2 Other information

Not available.

## **SECTION 12: Ecological information**

12.1 Toxicity

## **SECTION 12: Ecological information**

		-	
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
SODIUM CARBONATE PEROXIDE	Acute EC50 4.9 mg/l	Daphnia - Daphnia Pulex	48 hours
Fatty alcohol alkoxylate	Acute EC50 10 to 100 mg/l	Daphnia	48 hours
	Acute LC50 10 to 100 mg/l	Fish	96 hours
Oxirane, 2-methyl-, polymer with oxirane, mono (2-propylheptyl) ether	Acute EC50 10 to 100 mg/l	Aquatic plants	72 hours
	Acute EC50 10 to 100 mg/l	Daphnia	48 hours
	Acute LC50 10 to 100 mg/l	Fish	96 hours
	Chronic EC10 1 mg/l	Algae	72 hours
2,3-Oxiranedicarboxylic acid, sodium salt (1:2), homopolymer	Acute EC50 >1000 mg/l	Daphnia	24 hours
	Acute LC50 >1000 mg/l	Fish	96 hours
	Acute EC50 23.78 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute EC50 0.586 mg/l	Daphnia	48 hours
	Chronic EC10 0.145 mg/l	Daphnia	21 days

## 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dos	e	Inoculum
Oxirane, 2-methyl-, polymer with oxirane, mono (2-propylheptyl) ether	ISO 11734	70 % - 60 days	-		-
(= p. op)op()) on on	ISO 9439	>60 % - Readily - 28	3 days -		-
2,3-Oxiranedicarboxylic acid,	OECD 301 B	60 % - Readily - 28			-
sodium salt (1:2),	301B Ready		-		
homopolymer	Biodegradability -				
	CO2 Evolution				
	Test				
SUBTILISIN	OECD 301B	100 % - Readily - 29	9 days -		-
Conclusion/Summary	: Not available.		·		
Product/ingredient name	Aquatic half-life		Photolysis	I	Biodegradability
Oxirane, 2-methyl-, polymer	-		-	F	Readily

•		· · · · · · · · · · · · · · · · · · ·	• •
Oxirane, 2-methyl-, polymer	-	-	Readily
with oxirane, mono			
(2-propylheptyl) ether			
2,3-Oxiranedicarboxylic acid,	-	-	Readily
sodium salt (1:2),			-
homopolymer			
		1	

#### **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 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 : Yes.

#### European waste catalogue (EWC)

Waste code	Waste designation	
20 01 29*	detergents containing hazardous substances	
Packaging		
Methods of disposal	<ul> <li>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.</li> </ul>	
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	ΙΑΤΑ
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	-	-	-	-
Date of issue/Date of re	vision : 08/12/202	2 Date of previous issue	: No previous validation	Version : 1 12/14

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SECTION 14: Transport information					
14.5 Environmental	No.	No.	No.	No.	
Environmental hazards					

**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	: Not available.
bulk according to IMO	
instruments	

## **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 authorisation

#### 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.

#### Persistent Organic Pollutants

Not listed.

#### Seveso Directive

This product is not controlled under the Seveso Directive.

15.2 Chemical safety	: No Cł
assessment	

: No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
	1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	vPvB = Very Persistent and Very Bioaccumulative
Dreadure used to deriv	a the eleverification according to Regulation (EC) No. 1272/2008 [CLD/CHS]

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

SECTION 16: Other inform			
Classific	ation Justificat	Justification	
Skin Irrit. 2, H315 Eye Irrit. 2, H319	Calculation method Calculation method		
Full text of abbreviated H statemen	<u>'S</u>		
H272 H302 H315 H318 H319 H334 H335 H412	May intensify fire; oxidiser. Harmful if swallowed. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. May cause allergy or asthma symptoms or brea inhaled. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.	athing difficulties if	
Full text of classifications [CLP/GH	<u>81</u>		
Acute Tox. 4 Aquatic Chronic 3 Eye Dam. 1 Eye Irrit. 2 Ox. Sol. 3 Resp. Sens. 1 Skin Irrit. 2 STOT SE 3	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD SERIOUS EYE DAMAGE/EYE IRRITATION - C SERIOUS EYE DAMAGE/EYE IRRITATION - C OXIDISING SOLIDS - Category 3 RESPIRATORY SENSITISATION - Category 1 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SING Category 3	Category 1 Category 2	

This document complements the technical usage instructions but does not replace them. The information contained herein is based on our best current knowledge of the product concerned, and is given in good faith. The attention of recipients is drawn to (amongst other things) the element of risk consequent to use of the product other than that for which it was intended.

In no way does this document remove the need of the recipient of the product to fully understand and apply statutory requirements. It is the recipient's sole responsibility to take due precautions relative to the use made of the product. All information contained herein is only to assist the recipient in fulfilling their statutory duty connected with the use of hazardous materials.

This Document may be entitled Product Safety Data Sheet as required by REACH (Registration, Evaluation, Authorisation and restriction of Chemicals) Annex II OR Product Data Information Sheet where a product is not required to be supported by a full REACH compliant SDS (e.g. not classified as hazardous or out of scope, such as cosmetics). Changes from the previous version are given in Section 1.

This list of information must not be considered as exhaustive, and does not exonerate the recipient from taking other precautions described in documents other than those mentioned, concerning the storage and use of the product, for which they remain the sole person responsible.