This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (July 2020).

# SAFETY DATA SHEET



<u>Names</u>	
Product name	: Finish Ultimate 0% Dishwashing Tablets
SDS no.	: D8362664
Formulation #	: FF3090870
Supplier	: AUSTRALIA Reckitt Benckiser (Australia) Pty Limited ABN: 17 003 274 655 680 George Street, Sydney NSW 2000 Tel: +61 (0)2 9857 2000
	NEW ZEALAND RB (Hygiene Home) New Zealand Limited 2 Fred Thomas Drive, Takapuna Auckland , New Zealand 0622 Tel: +64 9 484 1400
Poison Information contact:	: Australia - 13 11 26 New Zealand - 0800 764 766 or 0800 POISON
<u>Uses</u>	
Product use	: Detergent for use in domestic automatic dishwashers. Consumer use
UPC Code / Sizes	: Recyclable doypack
2. Hazard identifi	
2. Hazard identifi Classification of the substance or mixture	
Classification of the	Cation : SKIN CORROSION/IRRITATION - Category 2
Classification of the	Cation SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A Percentage of the mixture consisting of ingredient(s) of unknown hazards to the
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Classification of the substance or mixture GHS label elements Hazard pictograms Signal word Hazard statements <u>Precautionary statements</u> General	<ul> <li>ication</li> <li>SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 11.5%</li> <li>: WARNING</li> <li>: Causes skin irritation. Causes serious eye irritation.</li> <li>: Keep out of reach of children. If medical advice is needed, have product container or label at hand.</li> </ul>
Classification of the substance or mixture GHS label elements Hazard pictograms Signal word Hazard statements <u>Precautionary statements</u> General Prevention	<ul> <li>SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 11.5%</li> <li>WARNING</li> <li>Causes skin irritation. Causes serious eye irritation.</li> <li>Keep out of reach of children. If medical advice is needed, have product container or label at hand.</li> <li>Not applicable</li> <li>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</li> </ul>

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## 3. Composition/information on ingredients

#### Substance/mixture

: Mixture

Ingredient name	% (w/w)	CAS number
Carbonic acid, disodium salt	≥10 - ≤30	497-19-8
Alcohols, C12-14, ethoxylated propoxylated	≥10 - ≤30	68439-51-0
Disodium carbonate, compound with hydrogen peroxide (2:3)	≥5 - ≤10	15630-89-4
Subtilisin	<0.1	9014-01-1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

#### Occupational exposure limits, if available, are listed in Section 8.

### 4. First-aid measures

#### **Description of necessary first aid measures**

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important sympt	oms/effects, acute and delayed
Potential acute healt	h effects
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs	s/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.
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### 4. First-aid measures

Indication of immediate medical attention and special treatment needed, if necessary			
Notes to physician	1	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.	
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.	

See toxicological information (Section 11)

## 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: No specific fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>
Hazchem code	: Not applicable

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
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).

#### Methods and material for containment and cleaning up

Small spill	: Move containers from spill area. Avoid dust generation. Using a vacuum with
	HEPA filter will reduce dust dispersal. Place spilled material in a designated,
	labeled waste container. Dispose of via a licensed waste disposal contractor.

### 6. Accidental release measures

#### 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. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

#### 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.

### 7. Handling and storage

Precautions for safe handling	L	
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.
Conditions for safe storage, including any incompatibilities	:	Store between the following temperatures: 5 to 30°C (41 to 86°F). Daily average of 30°C. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Do not store above the following temperature		30 °C

### 8. Exposure controls/personal protection

Control parameters
<u>Australia</u>
<b>Occupational exposure limits</b>

#### New Zealand

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#### **Occupational exposure limits**

Ingredient name	Exposure limits
subtilisin	NZ HSWA 2015 - GRWM 2016 (New Zealand, 11/2020). [Subtilisins] Absorbed through skin. Inhalation sensitiser. WES-Ceiling: 0.00006 mg/m <sup>3</sup> , (measured as 100% pure crystalline enzyme)

Appropriate engineering controls	: Good general ventilation should be sufficient to control worker ex contaminants.	posure to airborne
Environmental exposure controls	: Emissions from ventilation or work process equipment should be they comply with the requirements of environmental protection leg cases, fume scrubbers, filters or engineering modifications to the equipment will be necessary to reduce emissions to acceptable le	gislation. In some process

### 8. Exposure controls/personal protection

#### 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	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. 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.

## 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### Appearance Physical state

Physical state	: Solid.
Colour	: White. Green. Red.
Odour	: Not available.
Odour threshold	: Not available.
рН	: 9.7 to 10.5 [Conc. (% w/w): 10%]
Melting point/freezing point	: Not available.
Boiling point, initial boiling point, and boiling range	: Not available.
Flash point	: Not applicable.
Evaporation rate	: Not available.
Flammability	: Not available.
Lower and upper explosion limit/flammability limit	: Not applicable.
Vapour pressure	: Not available.
Relative vapour density	: Not applicable.
Relative density	: Not available.
Solubility(ies)	:

## 9. Physical and chemical properties

		• •
Media		Result
		Easily soluble Easily soluble
Partition coefficient: n- octanol/water	: Not	applicable.
Auto-ignition temperature	: Not	applicable.
Decomposition temperature	: Not	available.
SADT	: >55°	°C (>131°F)
Heat of reaction	: <300	0 J/g
Viscosity	: Not	applicable.
Particle characteristics		
Median particle size	: Not	available.

### 10. Stability and reactivity

_	-
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable. Do not expose to temperatures exceeding 50 °C/122 °F.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Keep away from heat and direct sunlight. Protect from moisture.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
subtilisin	LD50 Oral	Rat	3700 mg/kg	-
disodium carbonate,	LD50 Dermal	Rabbit	2001 mg/kg	-
compound with hydrogen peroxide (2:3)				
,	LD50 Oral	Rat	1034 mg/kg	-
Carbonic acid, disodium salt	LD50 Dermal	Mouse - Female	2210 mg/kg	-
	LD50 Oral	Rat	2800 mg/kg	-
Alcohols, C12-14, ethoxylated propoxylated	LD50 Oral	Rat	2001 mg/kg	-

Conclusion/Summary

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

Irritation/Corrosion

Result	Species	Score	Exposure	Observation
Eyes - Moderate irritant	Rabbit	-	3 mg	-
Eyes - Mild irritant	Rabbit	-	0.5 minutes 100 mg	-
Eyes - Moderate irritant	Rabbit	-		-
	Eyes - Moderate irritant Eyes - Mild irritant	Eyes - Moderate irritant Eyes - Mild irritant Rabbit	Eyes - Moderate irritant Eyes - Mild irritant Rabbit - Rabbit -	Eyes - Moderate irritantRabbit-3 mgEyes - Mild irritantRabbit-0.5 minutes100 mg

#### Conclusion/Summary Skin

Calculation method Causes skin irritation.

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# 11. Toxicological information

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Eyes	Calculation method Causes serious eye irritation.
Respiratory	Based on available data, the classification criteria are not met.
<u>Sensitisation</u>	
Not available.	
Conclusion/Summary	
Skin	Based on available data, the classification criteria are not met.
Respiratory	Based on available data, the classification criteria are not met.
Germ Cell Mutagenicity	
Not available.	
	Deced on evailable data, the classification evitaria are not mot
Conclusion/Summary	Based on available data, the classification criteria are not met.
Carcinogenicity Not available.	
Not available.	
Conclusion/Summary	Based on available data, the classification criteria are not met.
Reproductive toxicity	
Not available.	
<b>Conclusion/Summary</b>	Based on available data, the classification criteria are not met.
<b>Teratogenicity</b>	
Not available.	
<b>Conclusion/Summary</b>	Based on available data, the classification criteria are not met.
Specific target organ toxicity	<u>(single exposure)</u>
Not available.	
Specific target organ toxicity	(repeated exposure)
Not available.	
Aspiration hazard	
Not available.	
Information on likely routes	: Not available.
of exposure	
Potential acute health effects	
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation.
Ingestion	: No known significant effects or critical hazards.
Sumptomo valatad to the phys	ical chemical and toxical aginal characteristics
	<ul> <li>ical, chemical and toxicological characteristics</li> <li>Adverse symptoms may include the following:</li> </ul>
Eye contact	pain or irritation
	watering
	redness
	No specific data.
Skin contact	: Adverse symptoms may include the following: irritation
	redness
	Teuness
Ingestion	: No specific data.

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

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## 11. Toxicological information

<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
Potential chronic health effe	ect	<u>s</u>

Not available.

<b>Conclusion/Summary</b>		Based on available data, the classification criteria are not met.
General	1	No known significant effects or critical hazards.
Carcinogenicity	1	No known significant effects or critical hazards.
Germ Cell Mutagenicity	1	No known significant effects or critical hazards.
Teratogenicity	1	No known significant effects or critical hazards.
Developmental effects	1	No known significant effects or critical hazards.
Developmental effects	1	No known significant effects or critical hazards.

#### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
Oral	15256.12 mg/kg

## **12.** Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
subtilisin	Acute EC50 23.78 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
disodium carbonate, compound with hydrogen peroxide (2:3)	Acute EC50 4.9 mg/l	Daphnia - Daphnia Pulex	48 hours
Carbonic acid, disodium salt	Acute EC50 242000 μg/l Fresh water Acute LC50 176000 μg/l Fresh water Acute LC50 265000 μg/l Fresh water	Algae - Navicula seminulum Crustaceans - Amphipoda Daphnia - Daphnia magna	96 hours 48 hours 48 hours
0	Acute LC50 200000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours

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

#### Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
Alcohols, C12-14, ethoxylated propoxylated	OECD 301D	60.1 % - Readily - 2	8 days	-	-
Conclusion/Summary	Based on ava	Based on available data, the classification criteria are not met.			
Product/ingredient name	Aquatic half-life		Photolysis	S	Biodegradability
Alcohols, C12-14, ethoxylated propoxylated	-		-		Readily

#### **Bioaccumulative potential**

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#### <u>Mobility in soil</u>

Soil/water partition	: Not available.
coefficient (Koc)	

Other adverse effects

: No known significant effects or critical hazards.

### **13. Disposal considerations**

**Disposal methods** 

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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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.

### 14. Transport information

	ADG	ADR/RID	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.

**Special precautions for user** : For long distance transport of bulk material or shrunk pallet take into consideration sections 7 and 10. **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.

Transport in bulk according : Not available. to IMO instruments

## 15. Regulatory information

Standard for the Uniform Schee	duling of Medicines and Poisons
Not scheduled	
Australian Inventory of Industrial Chemicals (AIIC)	All components are listed or exempted.
New Zealand Inventory of Chemicals (NZIoC)	All components are listed or exempted.

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## **15. Regulatory information**

HSNO Group Standard	Cleaning Products (Subsidiary Hazard)
HSNO Approval Number	HSR002530
Approved Handler Requirement	No.
Tracking Requirement	No.

### **16.** Other information

Key to abbreviations	<ul> <li>ADG = Australian Dangerous Goods         ADR = The European Agreement concerning the International Carriage of             Dangerous Goods by Road             RID = The Regulations concerning the International Carriage of Dangerous Goods             by Rail             IATA = International Air Transport Association             IMDG = International Maritime Dangerous Goods             GHS = Globally Harmonized System of Classification and Labelling of Chemicals             IBC = Intermediate Bulk Container             SUSMP = Standard Uniform Schedule of Medicine and Poisons             UN = United Nations             SWA = Safe Work Australia             HSNO = Hazardous Substances and New Organisms Act 1996</li></ul>
Date of issue / Date of revision	: 22/12/2022
Version	: 1 (Version for updated GHS Revision 7 PSDS Template)

#### Procedure used to derive the classification

Classification	Justification
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A	Calculation method

**References** : Not available.

Indicates information that has changed from previously issued version.

#### 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.

Please read all labels carefully before using product.