



PRODUCT SAFETY DATA SHEET

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1. PRODUCT AND COMPANY IDENTIFICATION

Commercial Product Name **Finish Liquid**

Recommended / Intended Use: Detergent for use in domestic automatic dishwashers

Customer Product Codes: 0065506 Lemon 750mL

Supplier:

 AUSTRALIA
 Reckitt Benckiser (Australia) Pty Limited
 44 Wharf Road, West Ryde NSW 2114
 TEL: (02) 1800 022 046

 NEW ZEALAND
 Reckitt Benckiser (New Zealand) Limited
 Lincoln Manor
 289 Lincoln Road
 Henderson, Auckland 1231
 TEL: (09) 0800 40 30 30

Manufacturer Reckitt Benckiser (Australia) Pty Ltd.
 44 Wharf Road,
 West Ryde NSW 2114
 AUSTRALIA.

Emergency Telephone Number: After Hours (5 pm to 8 am EST Australia): +61 (02) 9857 2444

POISONS CENTRE INFORMATION Australia - 13 11 26
 New Zealand - 0800 764 766 or 0800 POISON

Australian Business Number (ABN): 17 003 274 655

2. HAZARDS IDENTIFICATION

**Non-Hazardous Substance According to Criteria of NOHSC Australia
Not classified as dangerous goods according to the ADG Code.**

R -phrase(s)	None
S -phrase(s)	S 2 - Keep out of the reach of children S46 - If swallowed, seek medical advice immediately and show this container or label
Safety Combination Phrases	S24/25 - Avoid contact with skin and eyes
Environmental Properties:	This product is not classified as an environmental hazards.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Proportion (% w/w)
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	120313-48-6	< 1 %
Subtilisin	9014-01-1	< 0.1 %
Alpha Amylase	9000-90-2	< 0.1 %
5-chloro-2-methyl-1,2-thiazol-3-one hydrochloride	26172-55-4	< 0.1 %
2-methyl-1,2-thiazol-3-one hydrochloride	2682-20-4	< 0.1 %

The other ingredients to 100%w/w are classified as not hazardous according to NOHSC (Australia)

4. FIRST AID MEASURES

General Advice	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.
Skin Contact	Wash off immediately with plenty of water
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician
Inhalation	Immediate medical attention is not required.
Ingestion	Do not induce vomiting without medical advice.
Notes to Physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flash point:	See section 9
Suitable Extinguishing Media:	As suitable for the surrounding fire.
Precautions for fire-fighting	Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Ensure adequate ventilation.
Environmental Precautions:	Prevent product from entering drains.
Methods for Cleaning up:	Mop up spill and wash area with detergent and water.
Methods for Containment:	Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

7. HANDLING AND STORAGE

Handling:	Ensure adequate ventilation
Storage:	Keep container tightly closed in a dry and well-ventilated place

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards: Exposure Standards have been set for the following ingredients:

Chemical Name	Australian Workplace Exposure Standards	New Zealand Workplace Exposure Standards
Subtilisin 9014-01-1		Ceiling: 0.00006 mg/m ³

TWA - The Time-Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life. According to current knowledge this concentration should neither impair the health or, not cause undue discomfort to, nearly all workers.
 STEL (Short Term Exposure Limit) – the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight hour work day. According to current knowledge this concentration should neither impair the health or, not cause undue discomfort to, nearly all workers

Biological Limit Values	No biological limit values allocated.
Engineering Controls:	Ensure adequate ventilation, especially in confined areas.
Eye Protection:	Tightly fitting safety goggles.
Hand Protection:	Permeation level 6, Penetration level 3 following EN374, taking into consideration the exposure of chemicals given in chapter 3.
Skin and Body Protection:	Usual safety precautions while handling the product will provide adequate protection against this potential effect.
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid.
Appearance:	Opaque Gel
Colour:	Blue
Odour:	Characteristic.
pH	9.0 ± 0.2 (1 %)
Interpretation of reserve	Not determined
Boiling Point/Range:	> 100°C / >212°F
Melting Point/Range	< 0°C / <32°F
Solubility:	completely soluble.
Specific Gravity / Density [g/mL]:	1.330 +/- 0.02 g/mL
Flash Point:	> 100°C / > 212°F
Viscosity:	4000 - 6000cPs

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to Avoid:	Keep away from open flames, hot surfaces and sources of ignition
Hazardous Decomposition Products:	Oxides of carbon and unknown organic compounds.
Polymerization:	No information available.

11. TOXICOLOGICAL INFORMATION

PRODUCT TOXICITY DATA

LD₅₀ Oral: >2000 mg/kg (rat) estimated

LD₅₀ Dermal: >2000 mg/kg (rat) estimated

LC₅₀ Inhalation (Dust): >5 mg/m³ (dust) estimated

LC₅₀ Inhalation (Vapor): 18 ml/m³ (vapor) estimated

Acute Effects:

Eye Irritation: None expected during normal use.
May cause eye irritation upon direct contact with eyes.

Skin Irritation None expected during normal conditions of use.
May cause skin irritation in susceptible persons

Inhalation None expected during normal conditions of use.

Ingestion: Health injuries are not known or expected under normal use.

Sensitization Not expected to be a skin sensitiser.

Chronic Effects: No information available.

Specific Effects

Carcinogenic Effects: Not listed as carcinogenic by OSHA, NTP or IARC.

Mutagenic Effects No information available.

Reproductive Toxicity: No information available.

Additional Toxicity Information: Information is based on available component data.

COMPONENT TOXICITY DATA

Chemical Name	CAS-No	LD50 Oral - With Units - Rat - mg/kg	LD50 Dermal - With Units - Rat/Rabbit - mg/kg	LC50 Inhalation - With units - Rat/Rabbit
Subtilisin	9014-01-1	3700 mg/kg (Rat)		
Alpha Amylase	9000-90-2	7500.001 mg/kg (Rat)		
5-chloro-2-methyl-1,2-thiazol-3-one hydrochloride	26172-55-4	481 mg/kg (Rat)	1008 mg/kg (Rat)	1.23 mg/L (Rat) 4 h

12. ECOLOGICAL INFORMATION

The ecotoxicity of this product has not been determined. However, the following component information is available.

COMPONENT ECOTOXICITY DATA

The following component ecotoxicity data was considered to determine the overall ecotoxicity of this product.

SUMMARY OF PRODUCT ECOTOXICITY DATA

Ecotoxicity:	No information available.
Biodegradability and Persistence:	Expected to be biodegradable
Mobility:	No information available

Additional Ecological Information: Contained surfactants are ultimately biodegradable according to the EU Detergent Regulation, 648/2004.

13. DISPOSAL CONSIDERATIONS

Disposal Methods and Containers:	Bulk quantities of product must be disposed of according to Local, State and Federal regulations.
Special Precautions for Landfill or Incineration:	No information available

14. TRANSPORT INFORMATION

General remarks	Not classified as dangerous in the meaning of transport regulations. For long distance transport of bulk material or shrunk pallet take into consideration sections 7 and 10.
<u>IATA</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated
<u>ADG (Australian Road and Rail)</u>	Not regulated

15. REGULATORY INFORMATION

Labelling

Contains Subtilisins (proteolytic enzymes) .
May produce an allergic reaction

Labelling:

CAUTION!
IRRITANT
KEEP OUT OF REACH OF CHILDREN.
DO NOT SWALLOW.
Avoid contact with eyes and skin.

R -phrase(s)

None

Safety Combination Phrases

S24/25 - Avoid contact with skin and eyes

S -phrase(s)

S 2 - Keep out of the reach of children
S46 - If swallowed, seek medical advice immediately and show this container or label

Regulatory Status**Poisons Schedule No. (SUSDP)
Australia:**

Not scheduled

AICS

Complies

New Zealand

This product has been approved under HSNO covered by Cleaning Products
(Subsidiary Hazard) Group Standard 2006 HSR002530

Approved Handler

Not required.

Tracking

Not required.

16. OTHER INFORMATION

Key: ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail
AICS = Australian Inventory of Chemical Substances
EC50 = median effective concentration
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
IMO = International Maritime Organization
LC50 = concentration required to kill 50% of test organisms.
LD50 = dose required to kill 50% of test organisms.
NOHSC = National Occupational Health and Safety Commission (Australia)

Reason for revision: Update or revision of the PSDS.

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Validation/Revision Date 11-Aug-2009

This MSDS has been prepared according to the National Code of Practice for the Preparation of Safety Data Sheets 2nd Edition [NOHSC:2011(2003)].

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End of Safety Data Sheet