

Product Name **CUSSONS MORNING FRESH DISHWASHING LIQUID**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name **PZ CUSSONS PTY LTD**
Address 282 - 300 Hammond Road, Dandelong, VIC, AUSTRALIA, 3175
Telephone (03) 9794 3333
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Synonym(s) 005903 - PRODUCT CODE • CUSSONS MORNING FRESH DISH WASHING LIQUID - ORIGINAL • CUSSONS MORNING FRESH DISHWASH LIQUID (ORIGINAL) • MORNING FRESH DISHWASHING LIQUID
Use(s) DETERGENT • DISHWASHING DETERGENT • DISHWASHING LIQUID

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO ASCC CRITERIA

RISK PHRASES

R38 Irritating to skin.
R41 Risk of serious damage to eyes.

SAFETY PHRASES

S23 Do not breathe gas/fumes/vapour/spray (where applicable).
S46 If swallowed, contact a doctor or Poisons Information Centre immediately and show container or label.

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

UN No.	None Allocated	DG Class	None Allocated	Subsidiary Risk(s)	None Allocated
Packing Group	None Allocated	Hazchem Code	None Allocated	EPG	None Allocated

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.	Content
ETHANOL	C2-H6-O	64-17-5	1-10%
1,2-BENZISOTHIAZOLIN-3-ONE	C7-H5-N-O-S	2634-33-5	<1%
WATER	H2O	7732-18-5	30-60%
COCOAMIDOPROPYL BETAINE	Not Available	61789-40-0	10-30%
SODIUM LAURYL ETHER SULPHATE	(C2-H4-O)n.C12-H26-O4-S.Na	9004-82-4	10-30%
ADDITIVE(S)	Not Available	Not Available	1-10%
SODIUM XYLENE SULPHONATE	C8-H10-O3-S.Na	1300-72-7	1-10%
DYE(S)	Not Available	Not Available	<1%

4. FIRST AID MEASURES

Eye If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Ingestion For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once).

Advice to Doctor Treat symptomatically

First Aid Facilities Eye wash facilities should be available.

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5. FIRE FIGHTING MEASURES

Flammability Non flammable. May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition. May also evolve sulphur oxides, nitrogen oxides and metal oxides when heated to decomposition.

Fire and Explosion Treat as per requirements for Surrounding Fires: Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

Extinguishing Prevent contamination of drains or waterways.

Hazchem Code None Allocated

6. ACCIDENTAL RELEASE MEASURES

Spillage Use personal protective equipment. Contain spillage, then cover / absorb spill with non-combustible absorbant material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. CAUTION: Spill site may be slippery.

7. STORAGE AND HANDLING

Storage Store in a cool, dry, well ventilated area, removed from oxidising agents, acids, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Large storage areas should have appropriate ventilation systems.

Handling Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

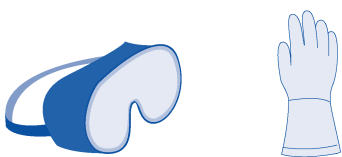
8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure Stds	Ingredient	Reference	TWA		STEL	
			ppm	mg/m3	ppm	mg/m3
	Ethanol	ASCC (AUS)	1000.0	1880.0	--	--

Biological Limits No biological limit allocated.

Engineering Controls Avoid inhalation. Use in well ventilated areas. Maintain vapour levels below the recommended exposure standard.

PPE Wear splash-proof goggles and rubber or PVC gloves.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	CLEAR GREEN LIQUID	Solubility (Water)	SOLUBLE
Odour	CHARACTERISTIC ODOUR	Specific Gravity	1.06
pH	7 (Neat)	% Volatiles	NOT AVAILABLE
Vapour Pressure	NOT AVAILABLE	Flammability	NON FLAMMABLE
Vapour Density	NOT AVAILABLE	Flash Point	NOT RELEVANT
Boiling Point	NOT AVAILABLE	Upper Explosion Limit	NOT RELEVANT
Melting Point	NOT AVAILABLE	Lower Explosion Limit	NOT RELEVANT
Evaporation Rate	NOT AVAILABLE		

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10. STABILITY AND REACTIVITY

Chemical Stability Stable under recommended conditions of storage.

Conditions to Avoid Avoid heat, sparks, open flames and other ignition sources.

Material to Avoid Incompatible with oxidising agents (eg. hypochlorites) and acids (eg. nitric acid).

Decomposition May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition. May also evolve sulphur oxides, nitrogen oxides and metal oxides when heated to decomposition.

Hazardous Reactions Polymerization is not expected to occur.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary Low toxicity - irritant. Use safe work practices to avoid eye or skin contact and inhalation. Over exposure may result in irritation.

Eye Irritant. Contact may result in irritation, lacrimation, pain and redness.

Inhalation Low irritant. Due to the low vapour pressure, an inhalation hazard is not anticipated with normal use.

Skin Low irritant. Prolonged or repeated contact may result in mild irritation, rash and dermatitis. May cause sensitisation when in contact with the skin.

Ingestion Low toxicity. Ingestion of large quantities may result in nausea, vomiting and gastrointestinal irritation.

Toxicity Data

- ETHANOL (64-17-5)
 - LC50 (Inhalation): 20000 ppm/10 hours (rat)
 - LCLo (Inhalation): 21900 ppm (guinea pig)
 - LD50 (Ingestion): 3450 mg/kg (mouse)
 - LD50 (Intraperitoneal): 3600 ug/kg (rat)
 - LD50 (Intravenous): 1440 mg/kg (rat)
 - LD50 (Subcutaneous): 8285 mg/kg (mouse)
 - LDLo (Ingestion): 1400 mg/kg (human)
 - LDLo (Intraperitoneal): 3000 mg/kg (dog)
 - LDLo (Intravenous): 1600 mg/kg (dog)
 - LDLo (Skin): 20 g/kg (rabbit)
 - LDLo (Subcutaneous): 19440 (infant)
 - TCLo (Inhalation): 20000ppm/7 hours (1-22 days pregnant rat - reproductive)
 - TDLo (Ingestion): 50 mg/kg (human)
- 1,2-BENZISOTHIAZOLIN-3-ONE (2634-33-5)
 - LD50 (Ingestion): 1020 mg/kg (rat)
- SODIUM LAURYL ETHER SULPHATE (9004-82-4)
 - LD50 (Ingestion): 1600 mg/kg (rat)

12. ECOLOGICAL INFORMATION

Environment This product is not anticipated to cause adverse effects to animal or plant life if released to the environment in small quantities, however larger quantities may cause foaming of waterways with adverse effects on aquatic life. At high levels, may dissolve oils on bird feathers with potential for bird to drown. Not expected to bioaccumulate.

13. DISPOSAL CONSIDERATIONS

Waste Disposal For small amounts absorb with cleaning rags and dispose of to refuse. For large amounts, absorb with sand or similar and dispose of to an approved landfill site. Contact the manufacturer for additional information.

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

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Shipping Name	None Allocated				
UN No.	None Allocated	DG Class	None Allocated	Subsidiary Risk(s)	None Allocated
Packing Group	None Allocated	Hazchem Code	None Allocated	EPG	None Allocated

15. REGULATORY INFORMATION

Poison Schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

AICS All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Additional Information ABBREVIATIONS:
 ADB - Air-Dry Basis.
 BEI - Biological Exposure Indice(s)
 CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.
 CNS - Central Nervous System.
 EINECS - European INventory of Existing Commercial chemical Substances.
 IARC - International Agency for Research on Cancer.
 M - moles per litre, a unit of concentration.
 mg/m3 - Milligrams per cubic metre.
 NOS - Not Otherwise Specified.
 NTP - National Toxicology Program.
 OSHA - Occupational Safety and Health Administration.
 pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
 ppm - Parts Per Million.
 RTECS - Registry of Toxic Effects of Chemical Substances.
 TWA/ES - Time Weighted Average or Exposure Standard.

HEALTH EFFECTS FROM EXPOSURE:
 It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:
 The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

COLOUR RATING SYSTEM: RMT has assigned all Chem Alert reports a colour rating of Green, Amber or Red for the sole purpose of providing users with a quick and easy means of determining the hazardous nature of a product. Safe handling recommendations are provided in all Chem Alert reports so as to clearly identify how users can control the hazards and thereby reduce the risk (or likelihood) of adverse effects. As a general guideline, a Green colour rating indicates a low hazard, an Amber colour rating indicates a moderate hazard and a Red colour rating indicates a high hazard.

While all due care has been taken by RMT in the preparation of the Colour Rating System, it is intended as a guide only and RMT does not provide any warranty in relation to the accuracy of the Colour Rating System. As far as is lawfully possible, RMT accepts no liability or responsibility whatsoever for the actions or omissions of any person in reliance on the Colour Rating System.

Report Status This Chem Alert report has been independently compiled by RMT's scientific department utilising the original Material Safety Data Sheet ('MSDS') for the product provided to RMT by the manufacturer. The information is based on the latest chemical and toxicological research and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue.

This Chem Alert report does not constitute the manufacturer's original MSDS and is not intended to be a replacement for same. It is provided to subscribers of Chem Alert as a reference tool only, is not all-inclusive and does not represent any guarantee as to the properties of the product. Further clarification regarding any aspect of

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the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this Chem Alert report, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this Chem Alert report.

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End of Report