

PRODUCT NAME: Commercial Rinse Aid

1. IDENTIFICATION OF MATERIAL & SUPPLIER

NAME: Ecowash Solutions Pty Ltd
ADDRESS: 41 Chard Rd, BROOKVALE NSW 2100
PHONE: 02 9938 9444
FAX: 02 9905 7222
EMERGENCY NO: 02 9938 9444
WEBSITE: www.ecowashsolutions.com.au
SYNONYM(S) RINSE AID
USE(S) Rinse Aid for automatic dishwashing machines
MSDS DATE: 04 July 2011

2. HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

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
Pkg 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	←10%
SURFACTANT	Not Available	Not Available	10-30%
NON HAZARDOUS INGREDIENTS	Not Available	Not Available	←10%
ALCOHOL DENATURANTS	Not Available	Not Available	←0.1%
WATER	H2O	7732-18-5	remainder

4. FIRST AID MEASURES

EYE Flush gently with running water for 15 minutes.

INHALATION If over exposure occurs leave exposure area immediately. If irritation persists, seek medical attention.

SKIN Gently flush affected areas with water.

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

ADVICE TO DOCTOR Treat symptomatically

FIRST AID FACILITIES Eye wash facilities and a hand wash-basin are recommended.

5. FIRE FIGHTING MEASURES

FLAMMABILITY	Non-flammable. May evolve toxic gases (hydrocarbons, carbon oxides) when heated to decomposition. This product may exhibit a momentary flash point from about 49°C, but will not burn, vapour/air mixture may build up to flammable concentrations.
FIRE & EXPLOSION	Non-flammable.
EXTINGUISHING	Non-flammable.
HAZCHEM CODE	None Allocated

6. ACCIDENTAL RELEASE MEASURES

SPILLAGE	If spilt, absorb with sand or similar. Wear splash-proof goggles, PVC/rubber gloves, coveralls and rubber boots. Collect and place in sealable containers for disposal. Caution: Spill site may be slippery.
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7. STORAGE AND HANDLING

STORAGE	Store out of direct sunlight and out of the reach of children, in a cool, dry, well ventilated area, removed from oxidising agents (e.g. hypochlorites), acids (sulphuric acid), heat sources and foodstuffs. Ensure containers are adequately labeled, protected from physical damage and sealed when not in use.
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 EQUIPMENT

EXPOSURE STANDARDS	Ingredient	Reference	TWA		STEL	
			Ppm	Mg/m3	Ppm	Mg/m3
	ETHANOL	NOHSC (AUS)	1000	1880	--	--

BIOLOGICAL LIMIT VALUES No biological limit allocated.

ENGINEERING CONTROLS Ensure adequate natural ventilation. Maintain vapour levels below the recommended exposure standard.

PPE Wear splash-proof goggles and rubber or PVC gloves. When using large quantities or where heavy contamination is likely, wear a PVC apron, safety boots and a face-shield.

9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE:	BLUE COLOURED LIQUID	SOLUBILITY (WATER):	SOLUBLE
ODOUR:	SLIGHT ALCOHOLIC ODOUR	SPECIFIC GRAVITY:	NOT AVAILABLE
pH:	NEUTRAL (Approximately)	% VOLATILES:	85 % (Approximately)
VAPOUR PRESSURE:	18 mm Hg @ 20°C	FLAMMIBILITY:	NON FLAMMABLE
VAPOUR DENSITY:	NOT AVAILABLE	FLASH POINT:	NOT RELEVANT
BOILING POINT:	78°C (Approximately)	UPPER EXPLOSION LIMIT:	NOT RELEVANT
MELTING POINT:	← 0°C	LOWER EXPLOSION LIMIT:	NOT RELEVANT
EVAPORATION RATE:	AS FOR WATER	AUTOIGNITION:	NOT AVAILABLE
DENSITY:	1 g/mL (Approximately)		

10. STABILITY & REACTIVITY

MATERIAL TO AVOID: Incompatible with oxidising agents (e.g. peroxides) and acids (e.g. hydrochloric acid).

DECOMPOSITION: May evolve toxic gases (hydrocarbons, carbon oxides) when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

HEALTH HAZARD SUMMARY This product may only present a hazard with direct eye contact, prolonged and repeated skin contact or with vapour inhalation at high levels. Chronic effects are not anticipated.

EYE Exposure may result in lacrimation, irritation, pain and redness.

INHALATION Due to the low vapour pressure of this product, an inhalation hazard is not anticipated.

SKIN Prolonged and repeated contact may result in irritation, skin rash and dermatitis.

INGESTION With large doses ingestion may result in nausea, vomiting and gastrointestinal irritation.

TOXICITY DATA
ETHANOL (64-17-5)
LC50 (Inhalation): 2000 ppm/10 hours (rat)
LD50 (Ingestion): 3450 mg/kg (mouse)

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. Not expected to bio-accumulate.

13. DISPOSAL CONSIDERATION

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

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

SHIPPING NAME: None Allocated

UN No. None Allocated **DG CLASS** None Allocated **SUBSIDIARY RISK(S)** None Allocated

Pkg 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:

Additional Information

EXPOSURE STANDARDS - TIME WEIGHTED AVERAGES: Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

ABBREVIATIONS:

ADB - Air-Dry Basis.

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

CNS - Central Nervous System.

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.

pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).

ppm - Parts Per Million.

TWA/ES - Time Weighted Average or Exposure Standard.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES: The recommendation for protective equipment contained within this 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.

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 report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

This document has been compiled by the manufacturer of the product and serves as the manufacturer's Material Safety Data Sheet ('MSDS'). It is based on information concerning the product which has been provided to Ecowash Solutions obtained from third party sources 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.

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