DISHWASHING EQUIPMENT, CHEMICALS & SERVICE

# MATERIAL SAFETY DATA SHEET

**PRODUCT NAME** **PREWASH STAIN SPOTTER**

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

| | |
|---|---|
| **Supplier Name** | **ECOWASH SYSTEMS** |
| **Address** | P.O Box 386, Brookvale, NSW, AUSTRALIA, 2100 |
| **Telephone** | (02) 9938 1800 |
| **Fax** | (02) 9905 0979 |
| **Emergency** | (02) 9938 1800 |
| **Web Site** | http://www.ecowashsystems.com.au |
| **Synonym(s)** | |
| **Use(s)** | STAIN REMOVER |
| **MSDS Date** | 13 August 2007 |

## 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 |
|---|---|---|---|
| ETHYLENE GLYCOL MONOBUTYL ETHER | C6-H14-O2 | 111-76-2 | <10% |
| NON HAZARDOUS INGREDIENTS | Not Available | Not Available | <10% |
| SURFACTANT(S) | Not Available | Not Available | <10% |
| WATER | H2O | 7732-18-5 | remainder |

## 4. FIRST AID MEASURES

**Eye** Hold eyelids apart and flush continuously with water. Continue until advised to stop by the Poisons Information Centre, a doctor, or for at least 15 minutes. Keep patient calm.

**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** Combustible. May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition. May also evolve nitrogen oxides and sulphur oxides when heated to decomposition. This product may exhibit a momentary flash point from about 64°C.

**Fire and Explosion** Combustible. Evacuate area and contact emergency services. Toxic gases (hydrocarbons, carbon oxides) may be evolved when heated. 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** Dry agent, carbon dioxide, foam or water fog. Prevent contamination of drains or waterways, absorb runoff with sand or similar.

**Hazchem Code** None Allocated

## 6. ACCIDENTAL RELEASE MEASURES

**Spillage** If spilt (bulk), wear splash-proof goggles, PVC/rubber gloves, coveralls and rubber boots. Absorb spill with sand or similar, collect and place in sealable containers for disposal. Prevent spill entering drains or waterways. Caution: Slippery when spilt.

## 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 (eg. hypochlorites), acids (sulphuric acid), heat 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

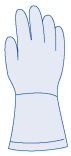
**Exposure Standards**

| Ingredient | Reference | TWA | | STEL | |
|---|---|---|---|---|---|
| | | ppm | mg/m3 | ppm | mg/m3 |
| 2-Butoxyethanol (EGBE) | NOHSC (AUS) | 20 | 96.9 | 50 | 242 |

**Biological Limit Values** No biological limit allocated.

**Engineering Controls** Ensure adequate natural ventilation.

**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, coveralls and a faceshield.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|---|---|---|
| **Appearance** | CLEAR COLOURLESS LIQUID | **Solubility (water)** | SOLUBLE |
| **Odour** | EUCALYPTUS ODOUR | **Specific Gravity** | NOT AVAILABLE |
| **pH** | 10.5 to 11.5 | **% Volatiles** | 80 % (Approximately) |
| **Vapour Pressure** | 18 mm Hg @ 20°C | **Flammability** | COMBUSTIBLE |
| **Vapour Density** | NOT AVAILABLE | **Flash Point** | > 64°C |
| **Boiling Point** | 100°C (Approximately) | **Upper Explosion Limit** | 12.7 % (EGME) |
| **Melting Point** | < 0°C | **Lower Explosion Limit** | 1.1 % (EGME) |
| **Evaporation Rate** | AS FOR WATER | **Autoignition Temperature** | NOT AVAILABLE |
| **Density** | 1 g/mL (Approximately) | | |

## 10. STABILITY AND REACTIVITY

**Material to Avoid** Incompatible with oxidising agents (eg. hypochlorites, peroxides), acids (eg. sulphuric acid), heat and ignition sources.

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

## 11. TOXICOLOGICAL INFORMATION

**Health Hazard Summary** This product may present a hazard with eye contact, prolonged and repeated skin contact or with inhalation at high levels. Upon dilution, the potential for adverse health effects will be reduced.

**Eye** Exposure may result in lacrimation, irritation, pain and redness.

**Inhalation** Over exposure to mists or vapours (if sprayed) may result in mucous membrane irritation of the nose and throat with coughing. At high levels nausea, dizziness and headache. Low product vapour pressure (low volatility), considerably reduces the potential for an inhalation hazard.

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

**Ingestion** Ingestion may result in nausea, vomiting, gastrointestinal irritation and diarrhoea.

**Toxicity Data** ETHYLENE GLYCOL MONOBUTYL ETHER (111-76-2)
LC50 (Inhalation): 700 ppm (mouse)
LD50 (Ingestion): 300 mg/kg (rabbit)
LD50 (Skin): 230 mg/kg (guinea pig)

## 12. ECOLOGICAL INFORMATION

**Environment** Limited ecotoxicity data was available for this product at the time this report was prepared. Ensure appropriate measures are taken to prevent this product from entering the environment.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal** For small amounts, absorb with sand, vermiculite or similar and dispose of to an approved landfill site. For larger amounts, contact the manufacturer for additional information. Prevent contamination of drains or waterways as aquatic life may be threatened and environmental damage may result.

**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** 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 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.

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.

**Report Status**

This document has been compiled by RMT on behalf of 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 RMT and Ecowash Systems by the manufacturer or 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. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT and Ecowash Systems have taken all due care to include accurate and up-to-date Information in this MSDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT and Ecowash Systems 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 MSDS.

**Prepared By**

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**MSDS Date:** 13 August 2007

## End of Report