



# Material Safety Data Sheet

Issue date: February 2004

Hazardous according to criteria of Worksafe Australia

## ALL IN ONE

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Ecowash Systems  
50 Chard Rd, Brookvale NSW 2100  
Tel: (02) 9938 1800  
Fax: (02) 9905 0979  
Product Name: ALL IN ONE

**Synonyms:**

Use: Heavy-duty biodegradable dishwashing detergent powder containing quality wetting agents. Designed and formulated to be automatically dispensed through dispensing equipment.

UN Number: 3262

Proper Shipping Name: CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.

**Dangerous Goods Class: 8**

Subsidiary risk:

Packing Group: II

Hazchem Code: 2X

Poison Schedule: S5

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Proportion	CAS Number
30 to 60%	6834-92-0
1 to 10%	7758-29-4
30 to 60%	Mixture

SUBSTANCE NAME  
DISODIUM METASILICATE  
SODIUM TRIPOLYPHOSPHATE  
OTHER NON HAZARDOUS SUBSTANCES

### 3. HAZARD IDENTIFICATION

Hazardous according to the criteria of Worksafe Australia Hazard Category: Corrosive

**ACUTE HEALTH EFFECTS**

**Swallowed:**

Will cause burns to the mouth, mucous membranes, throat, oesophagus and stomach. If sufficient quantities are ingested (swallowed) death may occur.

**Eye:**

Will cause burns to the eyes with effects including: Pain, tearing, conjunctivitis and if duration of exposure is long enough, blindness will occur.

**Skin:**

Will cause burns to the skin, with effects including: Redness, blistering, localised pain and dermatitis.

**Inhaled:**

Toxic if inhaled.

Will cause severe irritation to the nose, throat and respiratory system with effects including: Dizziness, headache, coughing, loss of co-ordination, chest pains, respiratory paralysis and or failure.

**Chronic:**

Prolonged or repeated skin contact will lead to necrosis (death) of the skin. Prolonged or repeated exposure or deliberately concentrating and inhaling the vapour(s) may result in lung function incapacity or death.

Additional information for Chronic

No significant long term exposure effects, including carcinogenic, mutagenic, teratogenic and reproductive effects, have been reported. However, repeated ingestion of some phosphates (120-240mg/kg/day) has been shown to cause increased calcium excretion and soft tissue calcification in man.

According to OECD Guideline for the Testing of Chemicals (OECD 405) for eye corrosion and OECD Guideline for the Testing of Chemicals (OECD 404) for skin corrosion, both test procedures have been utilized to determine that sodium hydroxide is a confirmed corrosive substance.

## 4. FIRST AID MEASURES

**Swallowed:**

If swallowed, DO NOT induce vomiting. If victim is conscious give water to drink. Immediately transport to hospital or doctor.

**Eye:**

If material is splashed into eyes, flush with plenty of water for at least 15 minutes, ensuring eye lids are held open. Immediately transport to hospital or doctor.

**Skin:**

If material is splashed onto the skin, remove any contaminated clothing and wash skin thoroughly with water and soap. Immediately transport to hospital or doctor.

**Inhaled:**

Remove victim to fresh air. Do not use mouth-to-mouth method if victim inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult.

**First Aid Facilities:**

Eye wash fountain, safety shower and normal wash room facilities.

**Advice to Doctor:** Due to the potential for esophageal or gastrointestinal tract burns following ingestion, emesis should not be induced and gastric lavage done only with caution. Immediate dilution with water or milk might be beneficial.

## 5. FIRE-FIGHTING MEASURES

**Fire/Explosion Hazard**

CAUTION: Use of water spray when fighting fire may be inefficient.

EXTINGUISHING MEDIA: Use dry chemical, carbon dioxide, foam or water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus (SCBA) required for fire-fighting personnel. If possible to do so safely, shut off fuel to fire. Use water spray to spray to cool fire-exposed surfaces and to protect personnel.

UNUSUAL FIRE AND EXPLOSION HAZARDS: If tanks, drums or containers of this material are heated, they may rupture and project corrosive materials over a wide area.

**Flammability**

Heat or damage to containers may release corrosive or toxic fumes

## 6. ACCIDENTAL RELEASE MEASURES

**EMERGENCY ACTION:**

Keep unnecessary people away; Isolate hazard area and deny entry. Stay upwind; Keep out of low areas. Do not walk or touch spilt material unless wearing personal protection as outlined under MSDS.

**SPILL OR LEAK PROCEDURE:**

Shut off ignition sources, no flares, smoking or flames in hazard area. Stop leak if you can do it without risk. Water spray may reduce vapour.

**SMALL SPILLS:**

Take up with sand, dirt or vermiculite. DO NOT use sawdust. Use non-sparking tools. Place into labelled drum(s) for later disposal.

**LARGE SPILLS:**

Notify Emergency Services (Police or Fire Brigade). Tell them exact location, nature, hazards, quantities, type of vehicle and any other information that would be helpful. Contain spill. Remove all ignition sources and safely stop flow of spill. Bund area. Trained personnel should wear Personal Protective equipment as highlighted in this MSDS. Blanket the spill with foam or use water fog to disperse vapour clouds. Consult an expert regarding disposal of this product.

## 7. HANDLING AND STORAGE

Avoid prolonged breathing of vapors and skin or eye contact. Store in a cool place and out of direct sunlight. Store away from sources of heat or ignition. Store away from oxidizing agents and strong acids. Keep containers tightly closed, when not using the product. Store in original packages as approved by manufacturer.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Standards**

***DISODIUM METASILICA TE***

No Exposure details available

***SODIUM TRIPOL YPHOSPHATE***

(Worksafe Australia) [TWA]10mg/m<sup>3</sup> (OEL) [TWA]2 mg/m<sup>3</sup>

**Engineering Controls**

Corrosive solid. Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate unless the material is heated, reacted or otherwise changed in some type of chemical reaction, then the use of a local exhaust ventilation system is recommended.

**Personal Protection Equipment**

CLOTHING: Neoprene or nitrile apron GLOVES: Neoprene or nitrile.

EYES: Chemical goggles or faceshield to protect eyes.

RESPIRATORY PROTECTION: Avoid breathing of vapours. Select and use respirators in accordance with AS/NZS 1715/1716. The use of a PI respirator with replaceable filters is recommended. Filter capacity and respirator type depends on exposure levels and type of contaminant. If entering spaces where the airborne concentration of a contaminant is unknown then the use of a Self-contained breathing apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715 / 1716, or any other acceptable International Standard is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	<b>Light blue powder</b>
<b>Boiling Point Melting Point:</b>	<b>None</b>
<b>Vapour Pressure:</b>	<b>None</b>
<b>Specific Gravity:</b>	<b>Not Available</b>
<b>Flash Point:</b>	<b>None</b>
<b>Flammability Limits:</b>	<b>Non flammable</b>
<b>Solubility in Water:</b>	<b>10% (approx.)</b>
<b>Other Properties</b>	
<b>Odour:</b>	<b>Faint smell of chlorine</b>
<b>pH (1% solution):</b>	<b>H.5 - 12.5</b>

## 10. STABILITY AND REACTIVITY

**STABILITY:**

Stable under normal conditions of use.

HAZARDOUS DECOMPOSITION PRODUCTS:

Emits choking and corrosive fumes when heated to decomposition.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITIES:

Strong alkalis and oxidizing agents.

CONDITIONS TO AVOID: Incompatibles.

## 11. TOXICOLOGICAL INFORMATION

There is no toxicological information available for this product.

## 12. ECOLOGICAL INFORMATION

This substance may cause long term adverse effects in the aquatic environment.

## 13. DISPOSAL CONSIDERATIONS

Refer to appropriate authority in your State. Dispose of material through a licensed waste contractor. Normally suitable for disposal by approved waste disposal agent. ^

## 14. TRANSPORT INFORMATION

**UN Number: 3262**

**Proper Shipping Name:** CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.

**Dangerous Goods Class: 8**

**Subsidiary risk:**

**Packing Group: II**

**Hazchem Code: 2X**

Classified as a CLASS 8 (CORROSIVE) Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail, 6th Edition.

Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with any of the following:

Class 1

Class 4.3

Class 5

Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids

Class? and are incompatible with food and food packaging in any quantity.

Emergency information(Transport):

Dangerous Goods - Initial Emergency Response Guide (SAA/SNZ HB76:1997)

For TOXIC AND/OR CORROSIVE Guide No: 37

## 15. REGULATORY INFORMATION

This material is a Scheduled Poison and must be stored, handled and used according to the appropriate regulations.

**RISK PHRASES**

R31 Contact with acids liberates toxic gas.

R34 Causes burns.

**SAFETY PHRASES**

SI/2 Keep locked up and out of reach of children.

S8 Keep container dry.

S13 Keep away from food, drink and animal feeding stuffs.

S22 Do not breathe dust.

S24/25 Avoid contact with skin and eyes.

S26f In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S41 In case of fire and/or explosion, do not breathe fumes. S45 In case of accident or if you feel unwell, contact a doctor or Poisons Information Centre immediately and show this container or label.

## 16. OTHER INFORMATION

### **Disclaimer**

The information herein is to the best of our knowledge, correct and complete. It describes the safety requirements for this product and should not be construed as guaranteeing specific properties. Since methods and conditions are beyond our control we do not accept liability for any damages resulting from the use of, or reliance on, this information in inappropriate contexts.