

PRODUCT NAME: **Professional Dish Washing Powder**

---

## 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)** PROFESSIONAL DISHWASHING POWDER  
**USE(S)** DISHWASHING POWDER  
**MSDS DATE:** 04 July 2011

---

## 2. HAZARDS IDENTIFICATION

---

**CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA**

### RISK PHRASES

R20 Harmful by inhalation.  
R34 Causes burns.  
R36/37/38 Irritating to eyes, respiratory system and skin.

### SAFETY PHRASES

S13 Keep away from food, drink and animal feeding stuffs.  
S24/25 Avoid contact with skin and eyes.  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
S45 In case of accident or if you feel unwell, contact a doctor or Poisons Information Centre immediately (show the label where possible).

**CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE**

<b>UN No.</b>	3253	<b>DG Class</b>	8	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Pkg Group</b>	III	<b>Hazchem Code</b>	2X	<b>EPG</b>	8A1

---

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

---

INGREDIENT	FORMULA	CAS NO.	CONTENT
SODIUM METASILICATE ANHYDROUS	Na <sub>2</sub> -Si-O <sub>3</sub>	6834-92-0	→60%
CHLORINE - AVAILABLE	Cl <sub>2</sub>	7782-50-5	1.2%
INERT INGREDIENTS	Not Available	Not Available	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.

<b>SKIN</b>	Remove contaminated clothing and gently flush affected areas with water. Continue to flush with water until skin no longer feels soapy. Seek medical attention. Launder clothing before reuse.
<b>INGESTION</b>	DO NOT induce vomiting. Immediately wash out mouth with water, and then give water to drink. Seek medical attention.
<b>ADVICE TO DOCTOR</b>	Treat symptomatically
<b>FIRST AID FACILITIES</b>	Eye wash and hand wash basin are recommended.

---

## 5. FIRE FIGHTING MEASURES

---

<b>FLAMMABILITY</b>	Non-flammable. May evolve toxic gases when heated to decomposition. Contact with some metals (e.g. aluminium), may liberate potentially flammable - explosive hydrogen gas. May also evolve carbon oxides and chlorine when heated to decomposition.
<b>FIRE &amp; EXPLOSION</b>	Non-flammable. 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 water-fog to cool intact containers and nearby storage areas.
<b>EXTINGUISHING</b>	Non-flammable. Prevent contamination of drains or waterways, absorb runoff with sand or similar.
<b>HAZCHEM CODE</b>	2X

---

## 6. ACCIDENTAL RELEASE MEASURES

---

<b>SPILLAGE</b>	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.
-----------------	--

---

## 7. STORAGE AND HANDLING

---

<b>STORAGE</b>	Store in cool, dry, well-ventilated area, removed from oxidising agents, metals, acids, heat sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills.
<b>HANDLING</b>	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

---

<b>EXPOSURE STANDARDS</b>	Ingredient	Reference	TWA		STEL	
			Ppm	Mg/m <sup>3</sup>	Ppm	Mg/m <sup>3</sup>
	CHLORINE – AVAILABLE	NOHSC (AUS)	1	3	--	--

**BIOLOGICAL LIMIT VALUES**  
No biological limit allocated.

**ENGINEERING CONTROLS**  
Do not inhale vapours. Use in well ventilated areas. In poorly ventilated areas, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.

**PPE**  
Wear splash-proof goggles, rubber or PVC gloves and coveralls. Where an inhalation risk exists when mixing, wear a PVC apron, rubber boots and a face-shield.

---

## 9. PHYSICAL & CHEMICAL PROPERTIES

---

<b>APPEARANCE:</b>	WHITE POWDER	<b>SOLUBILITY (WATER):</b>	SOLUBLE
<b>ODOUR:</b>	SLIGHT CHLORINE ODOUR	<b>SPECIFIC GRAVITY:</b>	NOT AVAILABLE
<b>pH:</b>	→ 11.5	<b>% VOLATILES:</b>	1.2 %
<b>VAPOUR PRESSURE:</b>	NOT AVAILABLE	<b>FLAMMIBILITY:</b>	NON FLAMMABLE
<b>VAPOUR DENSITY:</b>	NOT AVAILABLE	<b>FLASH POINT:</b>	NOT RELEVANT
<b>BOILING POINT:</b>	NOT AVAILABLE	<b>UPPER EXPLOSION LIMIT:</b>	NOT RELEVANT
<b>MELTING POINT:</b>	NOT AVAILABLE	<b>LOWER EXPLOSION LIMIT:</b>	NOT RELEVANT
<b>EVAPORATION RATE:</b>	NOT AVAILABLE	<b>AUTOIGNITION:</b>	NOT AVAILABLE
<b>DENSITY:</b>	NOT AVAILABLE		

---

## 10. STABILITY & REACTIVITY

---

<b>MATERIAL TO AVOID:</b>	Non-compatible with oxidising agents (e.g. peroxides), acids (e.g. sulphuric acid), active metals (e.g. aluminium, potassium, magnesium), and heat and ignition sources. Contact with acids may generate carbon dioxide, and chlorine.
<b>DECOMPOSITION:</b>	May evolve toxic gases when heated to decomposition. May also evolve carbon oxides and chlorine when heated to decomposition.

---

## 11. TOXICOLOGICAL INFORMATION

---

<b>HEALTH HAZARD SUMMARY</b>	Use safe work practices to avoid eye or skin contact. Due to the low vapour pressure of this product an inhalation hazard is not anticipated under normal conditions. If diluted, the potential for corrosive effects will be reduced. Repeated exposure to low levels of chlorine can lead to "chloracne" and erosion of the teeth.
<b>EYE</b>	May result in pain, redness, corneal burns and ulceration with possible permanent damage with prolonged contact.
<b>INHALATION</b>	Over exposure at high levels may result in irritation of the nose and throat, coughing, nausea and nasal inflammation. Low volatility markedly reduces inhalation hazard.
<b>SKIN</b>	Contact may result in itching, pain, redness, rash and dermatitis. Prolonged contact may result in burns.
<b>INGESTION</b>	Ingestion may result in ulceration and burns to the mouth and throat, nausea, vomiting, abdominal pain and diarrhoea.
<b>TOXICITY DATA</b>	SODIUM METASILICATE ANHYDROUS (6834-92-0) LD50 (Ingestion): 770 mg/kg (mouse) CHLORINE - AVAILABLE (7782-50-5) LC50 (Inhalation): 137 ppm/1 hour (mouse)

---

## 12. ECOLOGICAL INFORMATION

---

<b>ENVIRONMENT</b>	<b>WATER:</b> If released to waterways, alkaline products may change the pH of the waterway. Fish will die if the pH reaches 10-11 (goldfish 10.9, bluegill 10.5). <b>SOIL:</b> May leach to groundwater with toxic effects on aquatic life as above. <b>ATMOSPHERE:</b> Not expected to reside in the atmosphere. Drops or particles released to atmosphere should be removed by gravity and/or be rained out.
--------------------	---

---

## 13. DISPOSAL CONSIDERATION

---

<b>WASTE DISPOSAL</b>	Neutralise with dilute acid (e.g. 3 mol/L hydrochloric acid) or similar. For small amounts absorb with sand or similar and dispose of to an approved landfill site. Contact the manufacturer for additional information.
<b>LEGISLATION</b>	Dispose of in accordance with relevant local legislation.

---

## 14. TRANSPORT INFORMATION

---

### CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

**SHIPPING NAME:** DISODIUM TRIOXOSILICATE

<b>UN No.</b>	3253	<b>DG CLASS</b>	8	<b>SUBSIDIARY RISK(S)</b>	None Allocated
<b>Pkg GROUP</b>	III	<b>HAZCHEM CODE</b>	2X	<b>EPG</b>	8A1

---

## 15. REGULATORY INFORMATION

---

<b>POISON SCHEDULE</b>	Classified as a Schedule 5 (S5) Poison using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).
<b>AICS</b>	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/m<sup>3</sup> - 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.

While Ecowash Solutions 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, Ecowash Solutions 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.