



# MATERIAL SAFETY DATA SHEET

PRODUCT NAME **ECOWASH CHLOROSOL CX**

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Supplier Name** ECOWASH SYSTEMS.  
**Address** P.O Box 386, Brookvale, NSW, AUSTRALIA, 2100  
**Telephone** (02) 9938 1800  
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**Emergency** (02) 9938 1800  
**Web Site** <http://www.ecowashsystems.com.au>

**Synonym(s)**

**Use(s)** ALKALINE CLEANING AGENT • COFFEE STAIN REMOVER • GLASS SOAKER

**MSDS Date** 27 June 2007

## 2. HAZARDS IDENTIFICATION

### CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

**RISK PHRASES**

R20 Harmful by inhalation.  
R36/38 Irritating to eyes and skin.

**SAFETY PHRASES**

S13 Keep away from food, drink and animal feeding stuffs.  
S24/25 Avoid contact with skin and eyes.  
S26 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.  
S45 In case of accident or if you feel unwell, contact a doctor or Poisons Information Centre immediately (show the label where possible).  
S50 Do not mix with incompatible materials.  
S61 Avoid release to the environment. Refer to special instructions / safety data sheets.

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

<b>UN No.</b>	None Allocated	<b>DG Class</b>	None Allocated	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Pkg Group</b>	None Allocated	<b>Hazchem Code</b>	None Allocated	<b>EPG</b>	None Allocated

## 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	<10%
CHLORINE - AVAILABLE	Cl <sub>2</sub>	7782-50-5	2.5%
TRISODIUM PHOSPHATE, CHLORINATED	Not Available	Not Available	>60%
SURFACTANT(S)	Not Available	Not Available	<10%

# PRODUCT NAME CHLOROSOL CX

## 4. FIRST AID MEASURES

<b>Eye</b>	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.
<b>Inhalation</b>	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 facilities should be available. A hand wash basin is also recommended

## 5. FIRE FIGHTING MEASURES

<b>Flammability</b>	Non flammable. No fire or explosion hazard exists. May evolve chlorine, carbon dioxide, inorganic salts and oxides of sulphur when heated to decomposition.
<b>Fire and Explosion</b>	Non flammable. No fire or explosion hazard exists.
<b>Extinguishing</b>	Non flammable. Prevent contamination of drains or waterways, absorb runoff with sand or similar.
<b>Hazchem Code</b>	None Allocated

## 6. ACCIDENTAL RELEASE MEASURES

<b>Spillage</b>	If spilt (bulk), notify local authorities if appropriate. Collect and reuse where possible. Wear a faceshield or dust-proof goggles, PVC/rubber gloves, coveralls and boots. Where an inhalation risk exists, wear a Full-face Class P3 (Particulate) respirator or Full-face Air-line respirator. Collect and place in sealable containers for disposal. Wash spill site with soap and water.
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## 7. STORAGE AND HANDLING

<b>Storage</b>	Store in cool, well ventilated area, removed from oxidising agents (eg. hypochlorites), acids (eg sulphuric acid) and active metals (eg. sodium, magnesium, aluminium). Ensure containers are protected from physical damage and sealed when not in use.
<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.

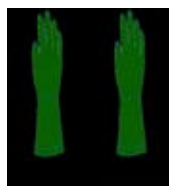
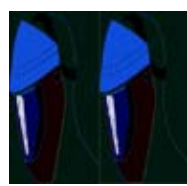
## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards	Ingredient	Reference	TWA		STEL	
			ppm	mg/m3	ppm	mg/m3
	CHLORINE - AVAILABLE	NOHSC (AUS)	1	3	--	--

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

**Engineering Controls** Do not inhale dusts. Use in well ventilated areas - open doors and windows. In poorly ventilated areas, mechanical extraction ventilation at source is recommended. Maintain dust levels below the recommended exposure standard.

**PPE** Wear dust-proof goggles, rubber or PVC gloves, coveralls and a faceshield. When using large quantities or where heavy contamination is likely, wear a PVC apron and boots. At high dust levels, wear an Air-line respirator. Where an inhalation risk exists, wear a Class P1 (Particulate) Respirator.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b>	FINE PINK COLOURED 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>	2.5 % (Available chlorine)
<b>Vapour Pressure</b>	NOT AVAILABLE	<b>Flammability</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 Temperature</b>	NOT AVAILABLE
<b>Density</b>	> 1 (Air = 1)		

## 10. STABILITY AND REACTIVITY

<b>Material to Avoid</b>	Incompatible with oxidising agents (eg. peroxides), acids (eg. sulphuric acid), active metals (eg. aluminium, potassium, magnesium), and heat and ignition sources. May evolve poisonous chlorine gas in contact with acids.
<b>Decomposition</b>	May evolve chlorine, carbon dioxide, inorganic salts and oxides of sulphur when heated to decomposition.

## 11. TOXICOLOGICAL INFORMATION

<b>Health Hazard Summary</b>	This product has the potential to cause acute and chronic health effects with over exposure. Use safe work practices to avoid eye and skin contact and dust generation/ inhalation. Over exposure at high levels may result in corrosive tissue damage. Upon dilution with water, the potential for serious corrosive effects will be reduced. Repeated low-level exposure to chlorine may 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 may result in membrane irritation, coughing and bronchitis. At high levels; intense thirst, ulceration, lung tissue damage, chemical pneumonitis and pulmonary oedema. Symptoms may be delayed following exposure.
<b>Skin</b>	Contact may result in rash, dermatitis, blistering and severe burns. Effects (eg. burning sensation) may be delayed. Will have a degreasing effect on the skin.
<b>Ingestion</b>	Ingestion may result in burns to the mouth and throat, nausea, vomiting, abdominal pain and ulceration. Due to product form, ingestion is not considered a likely exposure route.
<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>	WATER: 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). SOIL: May leach to groundwater with toxic effects on aquatic life as above. ATMOSPHERE: Not expected to reside in the atmosphere. Drops or particles released to atmosphere should be removed by gravity and/or be rained out.
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## 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal</b>	Neutralise with dilute acid (eg. 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

# PRODUCT NAME CHLOROSOL CX

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

<b>Shipping Name</b>	None Allocated				
<b>UN No.</b>	None Allocated	<b>DG Class</b>	None Allocated	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Pkg Group</b>	None Allocated	<b>Hazchem Code</b>	None Allocated	<b>EPG</b>	None Allocated

## 15. REGULATORY INFORMATION

**Poison Schedule** Classified as a Schedule 5 (S5) Poison 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** RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

WORKPLACE CONTROLS AND PRACTICES: Unless a less toxic chemical can be substituted for a hazardous substance, ENGINEERING CONTROLS are the most effective way of reducing exposure. The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release. Isolating operations can also reduce exposure. Using respirators or protective equipment is less effective than the controls mentioned above, but is sometimes necessary.

### ABBREVIATIONS:

mg/m<sup>3</sup> - Milligrams per cubic metre

ppm - Parts Per Million

TWA/ES - Time Weighted Average or Exposure Standard.

CNS - Central Nervous System

NOS - Not Otherwise Specified

pH - relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline.

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

M - moles per litre, a unit of concentration.

IARC - International Agency for Research on Cancer.

### 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 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 has 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 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.

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**PRODUCT NAME CHLOROSOL CX**

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**End of Report**