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MSDS – CHLORASOL CX

PRODUCT NAME: Chlorasol CX

1. IDENTIFICATION OF MATERIAL & SUPPLIER

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WEBSITE:	www.ecowashsolutions.com.au
SYNONYM(S)	
USE(S)	ALKALINE CLEANING AGENT • COFFEE STAIN REMOVER • GLASS SOAKER
MSDS DATE:	04 July 2011

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

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
SODIUM METASILICATE ANHYDROUS	Na2-Si-03	6834-92-0	←10%
CHLORINE – AVAILABLE	Cl2	7782-50-5	2.5%
TRISODIUM PHOSPHATE, CHLORINATED	Not Available	Not Available	→60%
SURFACTANT(S)	Not Available	Not Available	←10%

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	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.
INGESTION	DO NOT induce vomiting. Immediately wash out mouth with water, and then give water to drink. Seek medical attention.
ADVICE TO DOCTOR	Treat symptomatically
FIRST AID FACILITIES	Eye wash facilities should be available. A hand wash basin is also recommended

5. FIRE FIGHTING MEASURES

FLAMMABILITY	Non-flammable. No fire or explosion hazard exists. May evolve chlorine, carbon dioxide, inorganic salts and oxides of sulphur when heated to decomposition.
FIRE & EXPLOSION	Non-flammable. No fire or explosion hazard exists.
EXTINGIUSHING	Non-flammable. Prevent contamination of drains or waterways, absorb runoff with sand or similar.
HAZCHEM CODE	None Allocated

6. ACCIDENTAL RELEASE MEASURES

SPILLAGE	If spilt (bulk), notify local authorities if appropriate. Collect and reuse where possible. Wear a face-shield 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.

7. STORAGE AND HANDLING

STORAGE	Store in cool, well-ventilated area, removed from oxidising agents (e.g. hypochlorites), acids (e.g. sulphuric acid) and active metals (e.g. sodium, magnesium, aluminium). Ensure containers are 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
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	Normal use: Wear dust-proof goggles, rubber or PVC gloves. 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 & CHEMICAL PROPERTIES

APPEARANCE:	FINE PINK COLOURED POWDER	**SOLUBILITY (WATER):**	SOLUBLE
ODOUR:	SLIGHT CHLORINE ODOUR	**SPECIFIC GRAVITY:**	NOT AVAILABLE
pH:	→ 11.5	**% VOLATILES:**	2.5 % (Available chlorine)
VAPOUR PRESSURE:	NOT AVAILABLE	**FLAMMIBILITY:**	NON FLAMMABLE
VAPOUR DENSITY:	NOT AVAILABLE	**FLASH POINT:**	NOT RELEVANT
BOILING POINT:	NOT AVAILABLE	**UPPER EXPLOSION LIMIT:**	NOT RELEVANT
MELTING POINT:	NOT AVAILABLE	**LOWER EXPLOSION LIMIT:**	NOT RELEVANT
EVAPORATION RATE:	NOT AVAILABLE	**AUTOIGNITION:**	NOT AVAILABLE
DENSITY:	→ 1 (Air = 1)		

10. STABILITY & REACTIVITY

MATERIAL TO AVOID:	Incompatible with oxidising agents (e.g. peroxides), acids (e.g. sulphuric acid), active metals (e.g. aluminium, potassium, magnesium), and heat and ignition sources. May evolve poisonous chlorine gas in contact with acids.
DECOMPOSITION:	May evolve chlorine, carbon dioxide, inorganic salts and oxides of sulphur when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

HEALTH HAZARD SUMMARY	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.
EYE	May result in pain, redness, corneal burns and ulceration with possible permanent damage with prolonged contact.
INHALATION	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.
SKIN	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.
INGESTION	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.
TOXICITY DATA	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

ENVIRONMENT 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.

13. DISPOSAL CONSIDERATION

WASTE DISPOSAL 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.

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	**SUBSIDARY RISK(S)**	None Allocated
Pkg GROUP	None Allocated	**HAZCHEM CODE**	None Allocated	**EPG**	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:

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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