

Product Name MACHINE DISHWASHING POWDER CHLORINATED

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name	CLEAN PLUS CHEMICALS PTY LTD				
Address	16 George Young Street AUBURN NSW 2144				
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Emergency	1800 201 700				
Email	info@cleanplus.com.au				
Web Site	www.cleanplus.com.au				
Synonym(s)	NOT APPLICABLE • PRODUCT CODE – 515				
Use(s)	CLEANER, DESTAINER AND SANITISER FOR AUTOMATIC DISHWASHERS.				
SDS Date	24 February 2010 v1				
	5 July 2012 v2				

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC/ASCC CRITERIA

RISK PHRASES

R34	Causes burns					
R36/37	Irritating to eyes a	Irritating to eyes and respiratory system				
SAFETY PHRAS	ES					
S1/2	Keep locked up a	Keep locked up and out of reach of children				
S13	Keep away from f	Keep away from food, drink and animal foodstuffs				
S24/25	Avoid contact with	Avoid contact with skin and eyes.				
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.					
S45	S45 In case of accident or if you feel unwell seek medical advice immediately (Show the label where possible).					
CLASSIFIED AS A DANGEROUS GOODS BY THE CRITERIA OF THE ADG CODE						
UN No.	1759	DG Class	8	Subsidiary Risk(s)	None Allocated	
Packing Group	111	Hazchem Code	2X	EPG	8A1	

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.	Content
MODIFIED SODIUM DISILICATE	NOT AVAILABLE	1344-09-8	1-10%
SODIUM CARBONATE	Na2-C-O3	497-19-8	10-30%
SODIUM METASILICATE PENTAHYDRATE	Na2-Si-O3	1344-09-8	30-60%



SODIUM D	CHLOROISOCYANURATE	C3-H-CI-N3- O3.Na.2H2-O	51580-86-0	<4%		
NON HAZA	RDOUS INGREDIENTS	Not Available	Not Available	Remainder		
4. FIRST AI	D MEASURES					
Еуе	If in eyes, hold eyelids apart and flus stop by the Poison Information Cent		•	e flushing until advise	d to	
Skin		If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a doctor.				
Inhalation	If inhaled, remove from contaminate	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.				
Ingestion	For advice, contact a Poison Informa do not induce vomiting.	For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.				
Advice to Doct	or Treat symptomatically					

5. FIRE FIGHTING MEASURES

FlammabilityNon flammable. May evolve toxic gases if strongly heated. May evolve by-products of chlorine and
phosphorus oxides when heated to decomposition.Fire and ExplosionNon flammable. Treat as per requirements for Surrounding Fires: 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 waterfog to cool intact containers
and nearby storage areas.ExtinguishingNon flammable. Prevent contamination of drains or waterways.Hazchem CodeNone Allocated

6. ACCIDENTAL RELEASE MEASURES

Spillage If spilt (bulk), wear dust-proof goggles, PVC/rubber gloves and a Class P1 (Particulate) respirator (where a dust inhalation risk exists). Ventilate spillage area. Collect and place in sealable containers for disposal. Avoid generating dust.

7. STORAGE AND HANDLING

- **Storage** Store in cool, dry, well ventilated area, removed from direct sunlight, oxidizing agents (eg. Hypochlorites), acids and foodstuffs. Ensure containers are adequately labeled, protected from physical damage and sealed when not in use.
- **Handling** Before use carefully read the product label. Use of sale 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 Stds
 SODIUM CARBONATE (total dust)
 TWA: 10.0mg/m3 [Reference: ASCC(AUS)]

 SODIUM DICHLOROISOCYANURATE DIHYDRATE ES-TWA: 1ppm (chlorine decomposition)

Biological Limits No biological limit allocated.



Engineering Controls Do not inhale dusts. Ensure adequate natural ventilation- open doors and windows. In poorly ventilated areas, mechanical extraction ventilation at source is recommended.

PPE

Wear dust-proof goggles and PVC or rubber gloves and coveralls. Where an inhalation risk exists, wear a Class P1 (Particulate) respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	WHITE COLOURED POWDER	Solubility (Water)	SOLUBLE
Odour	SLIGHT CHLORINE ODOUR	Specific Gravity	NOT AVAILABLE
Ph	12.0 – 12.5 (1% SOLUTION)	Volatiles	NOT AVAILABLE
Vapour Pressure	NOT AVAILABLE	Flammability	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		
Vapour Pressure Vapour Density Boiling Point Melting Point	NOT AVAILABLE NOT AVAILABLE NOT AVAILABLE NOT AVAILABLE	Flammability Flash Point Upper Explosion Limit	NON FLAMMABLE NOT RELEVANT NOT RELEVANT

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended conditions of storage.
Conditions to Avoid	Avoid heat, sparks, open flames and other ignition sources.
Material to Avoid	Incompatible with oxidizing agents (eg. Hypochlorites, peroxides) and acids (e.g. nitric acid), metals, heat and ignition sources.
Decomposition	May evolve by-products of chlorine and phosphorus oxides when heated to decomposition.
Hazardous Reactions	Polymerization is not expected to occur.

11. TOXICOLOGICAL INFORMATION

Health Hazard Corrosive. This product has the potential to cause acute and chronic health effects with over exposure. Use safe work practices to avoid direct eve or skin contact and dust generation or inhalation. Over exposure at high levels may result in corrosive tissue damage. Upon dilution with water, the potential for serious corrosive effects may be reduced. Upon contact with water, low levels of corrosive and highly irritating chlorine and hydrogen chloride vapour are released. When used in small quantities the potential for over exposure is reduced. Eye Corrosive - Severe irritant. Contact may result in irritation, lacrimation, pain, redness, conjunctivitis. May result in burns with prolonged contact with possible permanent damage. Inhalation Corrosive. Over exposure at high levels may result in mucous membrane irritation of the nose and throat with coughing. At high levels: intense thirst, ulceration, lung tissue damage, chemical pneumonitis and pulmonary oedema. Symptoms may be delayed following exposure. Skin Corrosive-Irritant. Contact may result in irritation, redness, rash, dermatitis and burns. Effects may be delayed. Ingestion Corrosive. Ingestion may result in nausea, vomiting, gastrointestinal irritation and burns to the mouth and throat. Ingestion is unlikely due to product form. **Toxicity Data** SODIUM CARBONATE (497-19-8)



LC50(Inhalation): 800mg/m3/2 hours (guinea pig) LD50(Ingestion): 4090 mg/kg (rat) LD50(Intraperitoneal): 117 mg/kg (mouse) LD50(Subcutaneous): 2210 mg/kg (mouse)

SODIUM METASLICATE PENTAHYDRATE (10213-79-3) LD50(Ingestion): 779 mg/kg (mouse) LDLo50(Ingestion): 200 mg/kg (dog) LDLo50(Intraperitoneal): 117 mg/kg (guinea pig) LDLo50(Ingestion): 15g/kg (rat)

SODIUM DICHLOROISOCYANURATE(51580-86-0) LD50(Ingestion):1670mg/kg(mammal) LDLo(Ingestion):3570mg/kg(human)

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 CONSIDERATIONS

Waste Disposal Neutralise with dilute acid (eg 3mol/L hydrochloric acid) or similar. For small amounts absorb with sand or similar and dispose to an approved landfill site. If bulk quantities are required to be disposed of, contact the manufacturer for additional information.

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

CLASSIFIED AS A DANGEROUS GOODS BY THE CRITERIA OF THE ADG CODE

Shipping Name	CORROSIVE SOLID,N.O.S.					
UN No.	1759	DG Class	8	Subsidiary Risk(s)	None Allocated	
Packing Group	III	Hazchem Code	2X	EPG	8A1	

15. REGULATORY INFORMATION

Poison ScheduleA poison schedule number 5(S5) has 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. BEI - Biological Exposure Indice(s) CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds. CNS - Central Nervous System. EINECS - European Inventory of Existing Commercial chemical Substances.



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.
NTP - National Toxicology Program.
OSHA - Occupational Safety and Health Administration.
pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
ppm - Parts Per Million.
RTECS - Registry of Toxic Effects of Chemical Substances.
TWA/ES - Time Weighted Average or Exposure Standard.

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 Clean Plus Chemicals report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this Clean Plus Chemicals 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.

Report Status

This Safety Data Sheet document has been compiled by Clean Plus Chemicals. Further clarification regarding any aspect of this product should contact Clean Plus Chemicals. While Clean Plus Chemicals has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Clean Plus Chemicals 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 SDS.

End of Report

Prepared By

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