

Product Name MACHINE DISHWASHING POWDER**1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER****Supplier Name** CLEAN PLUS CHEMICALS PTY LTD**Address** 16 George Young Street AUBURN NSW 2144**Telephone** 02 9738 7444**Fax** 02 9644 1777**Emergency** 1800 201 700**Email** info@cleanplus.com.au**Web Site** www.cleanplus.com.au**Synonym(s)** NOT APPLICABLE • PRODUCT CODE – 510**Use(s)** CLEANER, DESTAINER AND SANITISER FOR AUTOMATIC DISHWASHERS.**SDS Date** 24 February 2010 v1

09 November 2011 v2

05 July 2012 v3

2. HAZARDS IDENTIFICATION**CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC/ASCC CRITERIA****RISK PHRASES**

R34 Causes burns

R36/37 Irritating to eyes and respiratory system

SAFETY PHRASES

S1/2 Keep locked up and out of reach of children

S13 Keep away from food, drink and animal foodstuffs

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 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** III **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	Na ₂ -C-O ₃	497-19-8	30-60%

SODIUM METASILICATE ANHYDROUS	Na ₂ -Si-O ₃	6834-92-0	30-60%
NON HAZARDOUS INGREDIENTS	Not Available	Not Available	Remainder

4. FIRST AID MEASURES

Eye	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poison Information Centre or a doctor, or for at least 15 minutes.
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 contaminated area. Apply artificial respiration if not breathing.
Ingestion	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 Doctor	Treat symptomatically

5. FIRE FIGHTING MEASURES

Flammability	Non flammable. May evolve toxic gases if strongly heated.
Fire and Explosion	Non 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.
Extinguishing	Non flammable. Prevent contamination of drains or waterways.
Hazchem Code	None 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.
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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 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 Stds	SODIUM CARBONATE (total dust)	TWA: 10.0mg/m ³ [Reference: ASCC(AUS)]
Biological Limits	No biological limit allocated.	
Engineering Controls	Do not inhale dusts. Ensure adequate natural ventilation.	

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	PINK COLOURED POWDER	Solubility (Water)	SOLUBLE
Odour	NO FRAGRANCE	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		

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 toxic gas if heated to decomposition.
Hazardous Reactions	Polymerization is not expected to occur.

11. TOXICOLOGICAL INFORMATION

Health Hazard	Corrosive. This product has the potential to cause adverse health effects with direct eye or skin contact. Use safe work practices to avoid direct eye or skin contact and dust generation or inhalation.
Eye	Corrosive - Severe irritant. Contact may result in irritation, lacrimation, pain, redness, conjunctivitis. May result in burns with prolonged contact.
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 odema.
Skin	Corrosive-Irritant. Prolonged or repeated 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.
Toxicity Data	SODIUM CARBONATE (497-19-8) LC50(Inhalation): 800mg/m ³ /2 hours (guinea pig) LD50(Ingestion): 4090 mg/kg (rat) LD50(Intraperitoneal): 117 mg/kg (mouse) LD50(Subcutaneous): 2210 mg/kg (mouse) SODIUM METASILICATE ANHYDROUS (6834-92-0)

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 TRIPOLYPHOSPHATE(7758-29-4)
LD50(Ingestion):3100mg/kg(mouse)
LD50(Intraperitoneal):525mg/kg(rat)
LD50(Intravenous):71mg/kg(mouse)
LD50(Subcutaneous):750mg/kg(guinea pig)

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.			Subsidiary Risk(s)	None Allocated
UN No.	1759	DG Class	8	EPG	8A1
Packing Group	III	Hazchem Code	2X		

15. REGULATORY INFORMATION

Poison Schedule A 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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