

Product Name **MACHINE DISHWASHING POWDER CHLORINATED**
1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name RJS PRODUCTS PTY LTD
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Webstie www.rjsproducts.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 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 | 10-30% |

| | | | |
|----------------------------------|--|---------------|-----------|
| SODIUM METASILICATE PENTAHYDRATE | Na ₂ -Si-O ₃ | 1344-09-8 | 30-60% |
| SODIUM DICHLOROISOCYANURATE | C ₃ -H-Cl-N ₃ -O ₃ .Na.2H ₂ -O | 51580-86-0 | <4% |
| NON HAZARDOUS INGREDIENTS | Not Available | Not Available | Remainder |

4. FIRST AID MEASURES

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| 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

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| Flammability | Non flammable. May evolve toxic gases if strongly heated. May evolve by-products of chlorine and phosphorus oxides when heated to decomposition. |
| 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

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| 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

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| 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

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| 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

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|-------------------------|---------------------------|------------------------------|---------------|
| 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 | | |

10. STABILITY AND REACTIVITY

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| 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

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| 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 eye 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. |

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| 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 | <p>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)</p> <p>SODIUM METASILICATE 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)</p> <p>SODIUM DICHLOROISOCYANURATE(51580-86-0) LD50(Ingestion):1670mg/kg(mammal) LDLo(Ingestion):3570mg/kg(human)</p> |

12. ECOLOGICAL INFORMATION

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| Environment | <p>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.</p> |
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13. DISPOSAL CONSIDERATIONS

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| 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

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| | | | | | |
|----------------------|------------------------|---------------------|----|---------------------------|----------------|
| 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

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|------------------------|---|
| 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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