

PRODUCT NAME: Prestige Plus

1. IDENTIFICATION OF MATERIAL & SUPPLIER

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SYNONYM(S) ECOWASH PRESTIGE PLUS CAPSULES
USE(S) AUTOMATIC DISHWASHING POWDER
MSDS DATE: 04 July 2011

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

RISK PHRASES

R20 Harmful by inhalation.
R35 Causes severe burns.
R36/37/38 Irritating to eyes, respiratory system and skin.

SAFETY PHRASES

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.
S37/39 Wear suitable 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).
S61 Avoid release to the environment. Refer to special instructions / safety data sheets.

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

| | | | | | |
|------------------|------|---------------------|----|---------------------------|----------------|
| UN No. | 3262 | DG Class | 8 | Subsidiary Risk(s) | None Allocated |
| Pkg Group | II | Hazchem Code | 2X | EPG | 8A1 |

3. COMPOSITION/INFORMATION ON INGREDIENTS

| INGREDIENT | FORMULA | CAS NO. | CONTENT |
|-------------------------------|--|---------------|-----------|
| SODIUM HYDROXIDE | Na-OH | 1310-73-2 | 30-60% |
| SODIUM METASILICATE ANHYDROUS | Na ₂ -Si-O ₃ | 6834-92-0 | 10-30% |
| SODIUM DICHLOROISOCYANURATE | C ₃ -H-Cl ₂ -N ₃ - O ₃ .Na | 2893-78-9 | ≤ 10% |
| CHLORINE – AVAILABLE | Cl ₂ | 7782-50-5 | 3.3% |
| ADDITIVES | Not Available | Not Available | remainder |

4. FIRST AID MEASURES

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| 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 | Leave area of exposure immediately. If assisting a victim avoid becoming a casualty, wear an Air-line respirator where an inhalation risk exists. Remove victim from exposure area & keep warm. If victim is not breathing apply artificial respiration & seek urgent 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 | For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor. If swallowed, do not induce vomiting. |
| ADVICE TO DOCTOR | Treat symptomatically |
| FIRST AID FACILITIES | Eye wash is essential, a hand wash basin is recommended. |

5. FIRE FIGHTING MEASURES

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| FLAMMABILITY | Non-flammable. May evolve toxic gases when heated to decomposition. Contact with some metals (e.g. aluminium), may liberate potentially flammable - explosive hydrogen gas. May also evolve sodium carbonate and chlorine when heated to decomposition. |
| FIRE & EXPLOSION | Non-flammable. 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 water-fog to cool intact containers and nearby storage areas. |
| EXTINGUISHING | Non-flammable. Prevent contamination of drains or water-ways, absorb runoff with sand or similar. |
| HAZCHEM CODE | 2X |

6. ACCIDENTAL RELEASE MEASURES

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| 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. |
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7. STORAGE AND HANDLING

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| STORAGE | Store in cool, dry, well ventilated area, removed from oxidising agents (e.g. hypochlorites), acids, metals, direct sunlight, heat sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills. Large storage areas should have appropriate ventilation systems. Also store removed from ammonium, paper, cardboard, wood and other organic materials. |
| 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 | -- | -- |
| Sodium hydroxide (peak limitation) | NOHSC (AUS) | -- | 2 | -- | -- |

BIOLOGICAL LIMIT VALUES

No biological limit allocated.

ENGINEERING CONTROLS

Do not inhale dust/ powder. Use with adequate natural ventilation. Where a dust inhalation hazard exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.

PPE

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

9. PHYSICAL & CHEMICAL PROPERTIES

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|--------------------------|--|-------------------------------|---------------|
| APPEARANCE: | WHITE GRANULAR POWDER (CAPSULE ENCLOSED) | SOLUBILITY (WATER): | SOLUBLE |
| ODOUR: | SLIGHT CHLORINE ODOUR | SPECIFIC GRAVITY: | NOT AVAILABLE |
| pH: | 14 (Approximately) | % VOLATILES: | NOT AVAILABLE |
| 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: | NOT AVAILABLE | | |

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. Will react vigorously or violently with acids, generating chlorine. Will absorb carbon dioxide from the air, forming potassium carbonate, which may precipitate out. Contact with ammonium compounds may generate ammonia.

DECOMPOSITION: May evolve toxic gases when heated to decomposition. May also evolve sodium carbonate and chlorine when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

HEALTH HAZARD SUMMARY

This product has the potential to cause severe acute and chronic health effects with over exposure. Use safe work practices to avoid all eye or skin contact and dust/powder inhalation. This product is used in an automatic system, thereby reducing the potential for exposure.

EYE

Contact may result in pain, lacrimation, redness, conjunctivitis, corneal burns and ulceration with possible permanent damage.

INHALATION

Inhalation of dust 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.

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| SKIN | Contact may result in rash, dermatitis, blistering and severe burns. Effects (e.g. burning sensation) may be delayed. |
| INGESTION | Ingestion may result in burns to the mouth and throat, nausea, vomiting, ulceration of the gastrointestinal tract, oedema, rapid pulse, shock, unconsciousness, convulsions and death. |
| TOXICITY DATA | SODIUM METASILICATE ANHYDROUS (6834-92-0) LD50 (Ingestion): 770 mg/kg (mouse) SODIUM DICHLOROISOCYANURATE (2893-78-9) LD50 (Ingestion): 1670 mg/kg (mammal) CHLORINE - AVAILABLE (7782-50-5) LC50 (Inhalation): 137 ppm/1 hour (mouse) |

12. ECOLOGICAL INFORMATION

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| 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. |
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13. DISPOSAL CONSIDERATION

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| WASTE DISPOSAL | Add to large quantity of water and neutralise (to pH 6-8) by SLOW addition of 6 mol/L hydrochloric acid (HCl). Discharge neutral solutions to drain or sewer with excess water. Contact the manufacturer for additional information. |
| LEGISLATION | Dispose of in accordance with relevant local legislation. |

14. TRANSPORT INFORMATION

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

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|-----------------------|---|---------------------|----|---------------------------|----------------|
| SHIPPING NAME: | CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. | | | | |
| UN No. | 3262 | DG CLASS | 8 | SUBSIDIARY RISK(S) | None Allocated |
| Pkg GROUP | II | HAZCHEM CODE | 2X | EPG | 8A1 |

15. REGULATORY INFORMATION

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| POISON SCHEDULE | Classified as a Schedule 6 (S6) 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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