



## MATERIAL SAFETY DATA SHEET

### MACHINE DISHWASH POWDER

#### SECTION 1: IDENTIFICATION

**PRODUCT NAME:** MACHINE DISHWASH POWDER

**Other Names:** AUTO DISHWASHING POWDER

**Product Codes:** 1x10kg box: 631031600

4x5kg Carton: 631031400

**Recommended Use:** For use in commercial and household dishwashing machines.

**SUPPLIER:**

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**NOTE:** For advice in an emergency, contact the Poisons Information Centre in Australia 13-11-26 or New Zealand 0800-764-766.

#### SECTION 2: HAZARDS IDENTIFICATION

**HAZARDOUS**

According to criteria of:

National Occupational Health & Safety Commission NOHSC

**HAZARDS CLASSIFICATION:** Corrosive

**DANGEROUS GOODS**

**DANGEROUS GOODS CLASSIFICATION:** Corrosive

According to criteria of:

Australian Dangerous Code for Transport by Road & Rail

**POISON: S5**

According to criteria of:

Standard for the Uniform Scheduling of Drugs and Poisons

**RISK PHRASES**

- R35 Causes severe burns.
- R41 Risk of serious eye damage.

**SAFETY PHRASES**

- S2 Keep out of reach of children.
- S24 Avoid contact with skin.
- S25 Avoid contact with eyes.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S28 After contact with skin, wash immediately with plenty of water.
- S36 Wear suitable protective clothing.
- S37 Wear suitable gloves.
- S39 Wear eye/face protection.
- S64 If swallowed, rinse mouth with water, (only if person is conscious).

<b>SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS</b>		
<b>Chemical Entity</b>	<b>CAS No</b>	<b>Proportion (%)</b>
Sodium carbonate	[497-19-8]	30-60%
Sodium metasilicate		30-60%
Sodium dichloroisocyanurate		<10%
Other Non-Hazardous Ingredients		To 100%

## **SECTION 4: FIRST AID MEASURES**

### **DESCRIPTION OF NECESSARY MEASURES ACCORDING TO ROUTES OF EXPOSURE**

#### **Swallowed**

Rinse mouth with water. Give water to drink provided the person is conscious. Never give anything by mouth to an unconscious person. **DO NOT** induce vomiting and seek Medical attention.

#### **Eye**

Immediately flush eyes with plenty of water, holding eyelids open. Seek medical attention if discomfort persists.

#### **Skin**

Remove contaminated clothing. Flush affected area with plenty of water. If irritation or discomfort persists, seek medical attention. Wash clothing before reuse.

#### **Inhaled**

Not considered a probable path of exposure. If breathing is affected remove victim to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

#### **ADVICE TO DOCTOR**

Treat symptomatically based on the individual reactions of patients and judgement of a Doctor.

**NOTE:** For advice in an emergency, contact the Poisons Information Centre in Australia 13-11-26 or New Zealand 0800-764-766

#### **ADDITIONAL INFORMATION**

#### **AGGRAVATED MEDICAL CONDITIONS CAUSED BY EXPOSURE**

No information is available on medical conditions, which are aggravated from exposure to this product.

## **SECTION 5: FIRE FIGHTING MEASURES**

### **EXTINGUISHING MEDIA**

In case of fire, appropriate extinguishing media include Dry Chemical, Foam, Carbon Dioxide and Water Fog. Use Water to keep fire-exposed containers cool and to protect personnel.

### **HAZARDS FROM COMBUSTION PRODUCTS**

The product is not combustible under normal conditions. When involved in a fire, this product may generate Carbon Dioxide and Carbon Monoxide. Stable under ordinary conditions of use and storage. Incompatible with Oxidizing Agents and Acids

### **SPECIAL PROTECTIVE PRECAUTIONS AND EQUIPMENT FOR FIRE FIGHTERS**

No specific data is available.

### **FLAMMABILITY CONDITIONS**

Product is aqueous and is not considered Combustible.

**HAZCHEM Code:** 2X

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **EMERGENCY PROCEDURES**

Persons involved in a major spill clean-up should wear appropriate personal protective equipment. Isolate hazard area and stop leaks if safe to do so. Avoid walking through spilled product, as it may be slippery. Keep unnecessary and unprotected personnel from entering the area. DO NOT allow product to enter drains or waterways.

### **METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP**

Collect liquid in an appropriate container or absorb with an inert material (e.g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as sawdust or cellulose. Do not flush to sewer.

## **SECTION 7: HANDLING AND STORAGE**

### **PRECAUTIONS FOR SAFE HANDLING**

Ensure an eye bath and safety shower is available and ready for use. Observe good personal hygiene practices and recommended procedures. Avoid prolonged contact with skin. Avoid contact with eyes.

## **CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBLES**

Protect against physical damage. Store in a cool, dry well-ventilated area. Separate from oxidizing materials and acids.

## **CONTAINER TYPE**

Store in original containers.

## **SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **NATIONAL EXPOSURE STANDARDS**

- **OSHA Permissible Exposure Limit (PEL):** No limits have been allocated to this product.

### **BIOLOGICAL LIMIT VALUES**

No Data Available

### **ENGINEERING CONTROLS**

Natural ventilations should be adequate under normal conditions of use.

### **PERSONAL PROTECTION**

#### **Respiratory protection**

Not considered necessary under normal conditions of use.

#### **Skin protection**

Not considered necessary under normal conditions of use. When cleaning up significant spills wear protective clothing including boots, gloves, lab coat, or coveralls, as appropriate, to prevent excessive skin contact.

#### **Eye protection**

Not considered necessary under normal conditions of use. When cleaning up significant spills wear chemical safety goggles and/or full face shield where splashing is possible. Maintain eyewash and quick-drench facilities in work area.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White with blue beads
Odour	Odourless
Solubility in water	Miscible
Specific Gravity	1.00
pH (as is)	Not available
pH (1% Aqueous Solution)	11.0-13.0
Viscosity (@ 20°C)	Not available
Flash Point (°C)	Not available
Volatile Organic Compounds (VOC) content	Not available
Evaporation Rate	Not available
Percent Volatile	Not available

## SECTION 10: STABILITY AND REACTIVITY

### CHEMICAL STABILITY

Product is stable under normal conditions of handling, storage and use.

### CONDITIONS TO AVOID

No information is available for this product.

### INCOMPATIBLE MATERIALS

No information is available for this product.

### HAZARDOUS DECOMPOSITION PRODUCTS

No information is available for this product.

### HAZARDOUS REACTIONS

No information is available for this product.

## 11. TOXICOLOGICAL INFORMATION

### TOXICITY DATA

Sodium carbonate

LD<sub>50</sub> oral (rat): 4090mg/kg  
LC<sub>50</sub> inhalation (rat): 2.3mg/litre/2hours  
Eye irritation (rabbit): severe

Sodium metasilicate

LD<sub>50</sub> oral (rat): 600 - 1350mg/kg

Sodium dichloroisocyanurate

Oral lowest lethal dose (human): 3570mg/kg  
LD<sub>50</sub> oral (rat): 1400mg/kg

### **HEALTH EFFECTS – ACUTE**

#### **Swallowed**

Serious damage to the mucous membranes of the throat and deeper tissue is likely due to internal chemical burns. Other symptoms the victim will experience include nausea, vomiting, diarrhoea, abdominal pain, convulsions and loss of consciousness. Death is a possible result if first aid is not performed immediately.

#### **Eye**

Direct eye contact will cause severe irritation including blurring and tearing and is likely to result in severe pain, permanent damage and possible blindness due to chemical burns if first aid is not performed immediately.

#### **Skin**

Direct skin contact will cause irritation due to chemical burns. Irritation may become severe injury (tissue destruction) if first aid is not performed immediately. Onset of pain due to chemical burns of skin may be delayed, which exacerbates injury.

#### **Inhaled**

Inhalation of dust will result in respiratory irritation and possible harmful corrosive effects including lesions of the nasal septum, pulmonary oedema, pneumonitis and emphysema.

## **12. ECOLOGICAL INFORMATION**

### **ECOTOXICITY**

No Data is available for this product.

### **PERSISTENCE AND DEGRADABILITY**

No information is available on the persistence and degradability of this product.

### **MOBILITY**

Not available.

### **ENVIRONMENTAL FATE (Exposure)**

No information is available for this product.

### **BIOACCUMULATION POTENTIAL**

No information is available on the Bioaccumulation Potential of this product.

## **13. DISPOSAL CONSIDERATIONS**

### **DISPOSAL METHODS AND CONTAINERS**

Dispose of in accordance with all local, state and federal regulations. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options.

### **SPECIAL PRECAUTIONS FOR LANDFILL AND INCINERATION**

No Data Available

## **14. TRANSPORT INFORMATION**

**UN No:** 1759  
**Shipping Name:** Corrosive Solid, N.O.S.  
**DANGEROUS GOODS CLASS:** 8  
**Subsidiary Risk:** Not Regulated  
**Packaging Group:** III  
**HAZCHEM Code:** 2X  
**PRECAUTIONS For User:** Not Regulated

## **15. REGULATORY INFORMATION**

**Poisons Schedule:** S5  
**EPG:** Not Regulated  
**AICS Name:** Not Regulated  
**NZ Toxic Substance:** No Data



## 16. OTHER INFORMATION

### LEGEND TO ABBREVIATIONS AND ACRONYMS

<	Less than
>	Greater than
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstracts Service (Registry Number)
LC50	LC stands for lethal concentration. LC50 is the concentration of a material in air, which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.
LD50	LD stands for "Lethal Dose". LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals
NIOSH	National Institute for Occupational Safety and Health
NOHSC	National Occupational Health and Safety Commission
OECD	Organization for Economic Co-operation and Development
PEL	Permissible Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average
UN No	United Nations (number)
Immiscible	Liquids are insoluble in each other
Miscible	Liquids form one homogeneous liquid phase regardless of the amount of either component present
mm	Millimetre
ppb	Parts per billion
ppm	Parts per million

### LITERATURE REFERENCES and SOURCES of DATA

List of Designated Hazardous Substances [NOHSC (National Occupational Health & Safety Commission)]

Approved Criteria for Classifying Hazardous Substances [NOHSC (National Occupational Health & Safety Commission)]

National Code of Practice for the Control of Workplace Hazardous Substances [HOHSC: 2007 (1994)]

National Standards for the Storage and Handling of Workplace Dangerous Goods [HOHSC: 1015 (2001)]

Exposure Standards Database [NOHSC (National Occupational Health & Safety Commission)]

Australian Dangerous Goods Code for Transport of Road & Rail [ADG Code: Sixth Addition Vol 1 & Vol 2]

Standards for the Uniform Scheduling of Drugs & Poisons [National Drugs and Poisons Committee Publication 23<sup>rd</sup> Addition June 2008]

**AUSTRALIAN / NZ STANDARDS**

AS1940: The Storage and Handling of Flammable & Combustible Liquids

AS3780: The Storage & Handling of Corrosive Substances

AS4326: The Storage & Handling of Oxidising Substances

AS/NZS 3780: The Storage & handling of Class 9 (Miscellaneous) Dangerous Goods

AS/NZS 3833: The Storage & Handling of Mixed Classes of Dangerous Goods in Packages & Intermediate Bulk Containers

**END OF MSDS**

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Revised By: Pelikan Artline Pty Ltd



**This MSDS summarises Pelikan Artline Pty Ltd best knowledge of the health and safety hazard information of the selected substance and how to safely handle the selected substance in the workplace however Pelikan Artline Pty Ltd expressly disclaims that the MSDS is a representation or guarantee of the chemical specifications for the substance. Each user should read the MSDS and consider the information in the context of how the selected substance will be handled and used in the workplace including its use in conjunction with other substances.**

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