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**MATERIAL SAFETY DATA SHEETS**

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**CLASSIFICATION OF MATERIAL**

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**Classified as hazardous according to criteria of the National Occupational Health and Safety Commission (Australia)**

**1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

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<b>1.1 Product:</b>	Sunlight Dishwashing Powder
<b>1.2 UN Proper Shipping Name:</b>	Not Applicable
<b>1.3 Recommended Use:</b>	Chlorinated, dishwashing detergent, with built-in rinse aid, for use in domestic dishwashing machines.
<b>1.4 Supplier:</b>	Pental Products Pty Ltd
<b>1.5 A.B.N:</b>	68 103 213 467
<b>1.6 Address:</b>	48 Drummond Road, Shepparton, Victoria, 3630
<b>1.7 Telephone Number:</b>	(03) 5820 5200 (Australia).
<b>1.8 Facsimile:</b>	(03) 5820 5221 (Australia).
<b>1.9 Emergency Telephone Numbers:</b>	(03) 5820 5200 (Australia: Weekdays 8.00am to 5.00pm) Poisons Information Centre Australia: 13 1126 Poisons Information Centre New Zealand: 0800 764 766

**2. HAZARDS IDENTIFICATION**

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<b>2.1 Hazard Classification:</b>	Hazardous Substance. Dangerous Goods
<b>2.2 Risk Phrase(s):</b>	R35 Causes severe burns. R36 Irritating to eyes. R37 Irritating to respiratory system.
<b>2.3 Safety Phrases:</b>	S1/2 Keep locked up and out of reach of children. S13 Keep away from food, drink and animal feeding stuffs. S22 Do not breathe dust. S24/25 Avoid contact with skin and eyes. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 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).

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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Proportion %
Disodium Metasilicate	6834-92-0	30 to 60
Sodium Tripolyphosphate	7758-29-4	30 to 60
Sodium Carbonate	497-19-8	10 to 30
Sodium Hydroxide	1310-73-2	1 to 10
Water and other non-hazardous substances	Mixture	1 to 10

This product contains:	Alkaline Salts	860 g/Kg.
	Available Chlorine	3.2%
	Sodium Hydroxide	860 g/kg

## 4. FIRST AID MEASURES

### 4.1 Description of Necessary First Aid Measures

<b>Ingestion:</b>	Do not induce vomiting. If victim is conscious, give water to drink. Seek immediate medical attention.
<b>Eye:</b>	Flush with plenty of water for at least 15 minutes. Hold the eyes open and wash with fresh running water. Ensure complete irrigation of the eye by keeping the eyelids apart and away from the eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek immediate medical attention.
<b>Skin:</b>	Remove any contaminated clothing. Wash off skin with soap and water. Seek immediate medical attention.
<b>Inhalation:</b>	Remove from source of exposure. Monitor symptoms and progress to assess the need for medical attention. Apply resuscitation if victim is not breathing. If victim inhaled substance, do not use mouth-to-mouth method, use mask equipped with a one-way valve or other proper respiratory medical device. If trained personnel available, administer oxygen if breathing is difficult.

### 4.2 Medical Attention and Special Treatment

<b>First Aid Facilities:</b>	Eye wash station and safety shower.
<b>Comments:</b>	Treat according to person's condition and specifics of exposure.
<b>Advice to Doctor:</b>	Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

<b>5.1 Suitable Extinguishing Media:</b>	Non-flammable. Use dry chemical, carbon dioxide, foam or water spray as extinguishing media. Water can be used to cool fire exposed containers.
<b>5.2 Hazards From Combustion Products:</b>	Emits choking and corrosive fumes when heated to decomposition. If containers of this material are heated, they may rupture and project corrosive materials over a wide area.
<b>5.3 Special Protective Precautions and Equipment For Fire Fighters:</b>	Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool. Self-containing breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals.
<b>5.4 Hazchem Code:</b>	2X.

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## 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Emergency Procedures:** Isolate hazard area and deny entry. Do not enter area or touch material unless wearing personal protective equipment as outlined in this MSDS. Remove any ignition sources. Stop leak, if safe to do so. Water spray may reduce dust and vapour. Do not allow large quantities to enter drains or surface waters.
- 6.2 Methods and Materials for Containment and Clean Up:** Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protective equipment recommendations described in this MSDS. Avoid generating dusts. Ventilate area. If possible, wet down area to prevent high dust levels.
- Small Spills:** Take up with sand, dirt or vermiculite. Do not use sawdust. Use non-sparking tools and place into suitably labelled container for disposal.
- Large Spills:** Notify emergency services. Contain spill. Bund area. If necessary, blanket the spill with foam or use water fog to disperse dust and vapour clouds.
- Consult an expert regarding disposal of this product. Laws and regulations may apply to releases and disposal of this material. You will need to determine which laws and regulations are applicable. Dispose of material through licensed waste contractor. Product is normally suitable for disposal by an approved waste disposal agent.

## 7. HANDLING AND STORAGE

- 7.1 Precautions for Safe Handling:** Use with adequate ventilation. Avoid breathing dust or vapours. Avoid skin or eye contact. Do not take internally. Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.
- 7.2 Conditions for Safe Storage:** Store in a cool, dry place and out of direct sunlight. Store away from sources of heat or ignition. Store away from oxidizing materials and strong alkalis. Store away from foodstuff containers. Keep containers tightly closed, when not using product. Store in original packages, as approved by manufacturer.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 National Exposure Standards:**
- | Ingredients                             | Exposure Limits   |
|---|---|
| Sodium Hydroxide<br>(CAS No. 1310-73-2) | Time Weighted Average (TWA): 2 mg/m <sup>3</sup> Peak limitation. |
- 8.2 Biological Limit Values:** No biological limit allocated.
- 8.3 Engineering Controls:** Corrosive solid. Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate, unless the material is heated, reacted or otherwise changed in a chemical reaction, then use of local exhaust ventilation system is recommended.
- 8.4 Personal Protective Equipment:** This product is corrosive and poisonous, and it is made to be used neat. The following protective equipment is

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	recommended for all circumstances where the product is handled directly.
<b>Respiratory</b>	Avoid breathing vapours and dusts. The use of a respirator is not normally required, however, if high concentrations are present, then the use of a half-face respirator with a P1 filter is recommended.
<b>Eye</b>	Avoid contact with eyes. Wear safety glasses, goggles or face shield. Do not wear contact lenses. Ensure eyewash is available.
<b>Skin</b>	Avoid contact with skin. Wear neoprene or nitrile gloves, coveralls (neoprene or nitrile aprons may be required) and enclosed footwear.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Physical Description / Properties

<b>Appearance:</b>	White, free-flowing powder.
<b>Odour:</b>	Characteristic lemon odour.
<b>pH:</b>	11.5 – 12.5 (1% Solution)
<b>Viscosity (cP @ 25°C):</b>	Not applicable
<b>Vapor Pressure:</b>	Not applicable
<b>Vapor Density:</b>	Not applicable
<b>Boiling Point (°C):</b>	Not applicable
<b>Freezing Point (°C):</b>	Not applicable
<b>Melting Point (°C):</b>	Not applicable
<b>Solubility In Water (g/100 mL):</b>	Approximately 10%.
<b>Specific Gravity (@ 25°C):</b>	Not determined
<b>Flash Point (°C):</b>	Not applicable
<b>Lower Explosive Limit (%):</b>	Not determined
<b>Upper Explosive Limit (%):</b>	Not determined
<b>Autoignition Temp (°C):</b>	Not determined
<b>Decomposition Temp (°C):</b>	Not determined

## 10. STABILITY AND REACTIVITY

<b>10.1 Chemical Stability:</b>	The product is stable under normal ambient conditions of temperature and pressure.
<b>10.2 Conditions To Avoid:</b>	Incompatible materials.
<b>10.3 Incompatible Materials:</b>	Strong oxidizing agents and strong alkalis.
<b>10.4 Hazardous Decomposition Products:</b>	Emits choking and corrosive fumes when heated to decomposition.
<b>10.5 Hazardous Reactions:</b>	Hazardous polymerisation will not occur.

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## 11. TOXICOLOGICAL INFORMATION

11.1 **Likely Route of Exposure:** [X] Inhalation [X] Skin contact [X] Ingestion

11.2 **Health Effects From Likely Route of Exposure:**

### Acute

**Ingestion:** Corrosive and poisonous. Will cause burns to the mouth, mucous membranes, throat, oesophagus and stomach. If sufficient quantities are ingested, death may occur.

**Eye:** Corrosive. Will cause burns to the eyes with effects including; pain, lachrymation and conjunctivitis. If duration of exposure is prolonged, blindness will occur.

**Skin:** Corrosive. Will cause burns to the skin, with effects including; redness, blistering, localised pain and dermatitis.

**Inhalation:** Corrosive. Will cause severe irritation to the nose, throat and respiratory system with effects including; dizziness, headache, coughing, loss of co-ordination, chest pain, respiratory paralysis and/or respiratory failure.

### Chronic

**Ingestion:** Corrosive and poisonous.

**Skin:** Prolonged, or repeated, skin contact will lead to necrosis of the skin.

**Inhalation:** Intentional misuse by concentrating/inhaling contents may be injurious to health or lethal.

11.3 **Other Information:** No known applicable information.

## 12. ECOLOGICAL INFORMATION

12.1 **Ecotoxicity:** In large concentrations, this product is detrimental to the aquatic environment.

**Bioaccumulation:** No information available.

12.2 **Environmental Fate and Distribution:** Inherently biodegradable. However, in large concentrations, this product may cause long term adverse effects on the aquatic environment.

12.3 **Fate and Effects in Waste Water Treatment Plants:** No adverse effects on bacteria are predicted.

## 13. DISPOSAL CONSIDERATIONS

13.1 **Disposal Method:** Single unit: Empty container (keep separate from other wastes). Rinse container, remove or obliterate labelling before sending to landfill or recycler.  
Large amounts: Reclaim or dispose of in accordance with local, state and federal regulations. Dispose of material through licensed waste contractor. Product is normally suitable for disposal by an approved waste disposal agent.

13.2 **Special Precautions for Landfill or Incineration:** Emits choking and corrosive fumes when heated to decomposition.

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## 14. TRANSPORTATION INFORMATION

14.1	<b>UN Number:</b>	3262.
14.2	<b>UN Proper Shipping Name:</b>	Corrosive Solid, Basic, Inorganic, N.O.S.
14.3	<b>Dangerous Goods Class:</b>	8.
	<b>Packing Group:</b>	II.
14.4	<b>Special Precautions for User:</b>	Not applicable.
14.5	<b>HAZCHEM Code:</b>	2X.
	<b>Additional Shipping Information:</b>	Not applicable.

## 15. REGULATORY INFORMATION

15.1	<b>SUSDP Poisons Schedule:</b>	S5.
15.2	<b>Prohibition / Licensing Requirements:</b>	There are no applicable prohibition or notification / licensing requirements, including for carcinogens under Commonwealth, State or Territory legislation.
15.3	<b>Industrial Chemicals (Notification and Assessment) Act 1989:</b>	All ingredients are listed on or exempt from the <i>Australia Inventory of Chemical Substances (AICS)</i> .

## 16. OTHER INFORMATION

16.1	<b>Issue Date:</b>	24 <sup>th</sup> August 2009
16.2	<b>Contact Points:</b>	
	<b>Title / Position:</b>	Research & Development Manager
	<b>Telephone:</b>	(03) 5820 5204 (Australia: Weekdays 8.00am to 5.00pm)
	<b>E-mail:</b>	enquiries@pental.com.au
16.3	<b>After Hours Emergency Medical Assistance:</b>	Poisons Information Centre
	<b>Telephone:</b>	Australia: 13 1126 New Zealand: 0800 764 766

### Disclaimer:

This information is provided based on our current knowledge and is intended to describe the product for the purpose of health, safety and environment requirements only. Pental Products Pty Ltd makes no representation, guarantee or warranty, expressed or implied, as to the accuracy, reliability or completeness of the information and assumes no responsibility for injury, damage or loss resulting from the use of the material. Since Pental Products Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product.

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