



MATERIAL SAFETY DATA SHEETS

Sunlight Dishwashing Liquid**Version: 2****Issued: 21st May 2013****Page 1 of 7**

CLASSIFICATION OF MATERIAL

Classified as hazardous according to criteria of the Globally Harmonised System of Classification and Labelling of Chemicals 3rd Revised Edition.

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

- | | | |
|-----|-------------------------------------|--|
| 1.1 | Product: | Sunlight Dishwashing Liquid |
| 1.2 | UN Proper Shipping Name: | None allocated |
| 1.3 | Recommended Use: | Dishwashing detergent. |
| 1.4 | Supplier: | Pental Products Pty Ltd |
| 1.5 | A.B.N: | 68 103 213 467 |
| 1.6 | Address: | 48 Drummond Road, Shepparton, Victoria, 3630 |
| 1.7 | Telephone Number: | (03) 5820 5200 (Australia). |
| 1.8 | Facsimile: | (03) 5820 5221 (Australia). |
| 1.9 | Emergency Telephone Numbers: | (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

- | | | |
|-----|-------------------------------|---|
| 2.1 | Hazard Classification: | Hazardous Substance. Non-Dangerous Goods. |
| 2.2 | GHS Classification | Eye Irritation Category 2A |
| 2.3 | Hazard Statements: | H319 Causes serious eye irritation. |
| 2.4 | Prevention Statements: | P102 Keep out of reach of children. P103 Read label before use. P264 Wash hands thoroughly after handling. P280 Wear eye protection. |
| 2.5 | Response Statements: | P101 If medical advice is needed, have product container or label at hand. P305+P351+P338 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical attention. |
| 2.6 | Storage Statements: | No storage statements. |
| 2.7 | Disposal Statements: | No disposal statements. |

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3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | CAS Number | Proportion % |
|-----------------------------|-----------------------|--------------|
| Water | 7732-18-5 | > 60 |
| Anionic surfactants | 9004-82-4, 68584-22-5 | 10 to 20 |
| Urea | 57-13-6 | < 5 |
| Sodium Hydroxide | 1310-73-2 | < 5 |
| Citric Acid | 77-92-9 | < 1 |
| Sodium Chloride | 7647-14-5 | < 1 |
| Fragrance | Proprietary | < 1 |
| 1,2-Benzoisothiazolin-3-one | 2634-33-5 | < 0.1 |
| Colours | Proprietary | < 0.1 |

4. FIRST AID MEASURES

4.1 Description of Necessary First Aid Measures

| | |
|--------------------|---|
| Ingestion: | Do not induce vomiting. Immediately remove product from the mouth and wash out mouth with plenty of water. If symptoms develop, obtain medical attention. |
| Eye: | Immediately hold the eyes open and wash with fresh running water. Take care not to rinse contaminated water into non-affected eye. 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. Remove contact lenses, if present and easy to remove. Continue rinsing. If symptoms persist, obtain medical attention. |
| Skin: | Wash skin thoroughly with plenty of water. Remove contaminated clothing and wash before re-use. If symptoms develop, obtain medical attention. |
| Inhalation: | Remove from source of exposure. Keep at rest until recovered. If symptoms persist, obtain medical attention. |

4.2 Medical Attention and Special Treatment

| | |
|------------------------------|---|
| First Aid Facilities: | An eye wash fountain, safety shower and general washing facility should be available immediately adjacent to the work area. |
| Comments: | Treat according to person's condition and specifics of exposure. |
| Advice to Doctor: | Treat symptomatically. |

5. FIRE FIGHTING MEASURES

| | |
|--|--|
| 5.1 Suitable Extinguishing Equipment: | Use appropriate fire extinguisher for surrounding environment. |
| 5.2 Specific Hazards Arising From The Chemical: | This product is non-flammable. This material may decompose and produce toxic and/or irritating fumes under fire conditions. |
| 5.3 Special Protective Equipment and Precautions For Fire Fighters: | 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. |

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6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Precautions, Protective Equipment and Emergency Procedures:** Avoid eye contact. Determine whether to evacuate or isolate the area according to your local emergency plan. Caution, spill site may be slippery. Increase ventilation. Evacuate all unprotected personnel. Use full protective clothing and equipment to minimise exposure.
- 6.2 Environmental Precautions:** Prevent run off into drains and waterways. If a large quantity of this material enters the environment, contact the relevant regulatory authorities. Dispose of waste according to Federal, E.P.A., State and Local regulations.
- 6.3 Methods and Materials for Containment and Clean Up:** Observe all personal protective equipment recommendations described in this MSDS. Contain spill. If leaked material can be pumped, store recovered material in appropriate containers. Clean up remaining materials from spill with suitable absorbent. Dispose of saturated absorbent material or cleaning materials appropriately. Laws and regulations may apply to releases and disposal of this material. You will need to determine which laws and regulations are applicable.

7. HANDLING AND STORAGE

- 7.1 Precautions for Safe Handling:** Use in a well ventilated area. Avoid breathing in mists or vapour. Avoid skin and eye contact. Do not take internally. Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking, smoking or using toilet facilities.
- 7.2 Conditions for Safe Storage, Including Any Incompatibilities:** Store in a cool, dry, well ventilated area, away from heat and out of direct sunlight. Keep away from oxidising agents, strong acids and foodstuff containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 National Exposure Standards:** No value is assigned for this specific material by the National Occupational Health and Safety Commission (Australia). However, the available exposure limits for the ingredient Sodium Hydroxide as listed in the "Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC: 1003 (1995)]" published by the National Occupational Health and Safety Commission (Australia) are as follows:
- | Ingredients | Exposure Limits |
|---|--|
| Sodium Hydroxide (CAS No. 1310-73-2) | Time Weighed Average (TWA): 2 mg/m ³ (Peak limitation) and - ppm. Short Term Exposure Limit (STEL): - mg/m ³ and - ppm. |
- 8.2 Biological Limit Values:** No biological limit allocated.
- 8.3 Engineering Controls:** Ensure adequate ventilation. If mists or vapours are produced local exhaust ventilation should be used.

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8.4 Personal Protective Equipment:

Respiratory:

Domestic quantities require no special equipment with normal careful use. When handling bulk quantities. Avoid breathing mists or vapours. Where ventilation is inadequate and mists or vapours are generated, respiratory protective equipment should be used suitable for protecting against airborne contaminants. Reference should be made to Australian Standards: AS/NZS 1715 Selection, use and maintenance of respiratory protective devices; and AS/NZS 1716 Respiratory protective devices.

Eye:

Domestic quantities require no special equipment with normal careful use. When handling bulk quantities. Avoid eye contact. Safety glasses with side shields, goggles or face shield should be worn. Eye protection should conform with AS/NZS 1337 Eye protectors for industrial applications.

Skin:

Domestic quantities require no special equipment with normal careful use. When handling bulk quantities. Wear gloves of impervious material. Refer to AS/NZS 2161.1 Occupational protective gloves – Selection use and maintenance.

Wear appropriate clothing, including a chemical resistant apron, where clothing is likely to be contaminated. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial Clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Description / Properties

| | |
|-----------------------------------|----------------------|
| Appearance: | Clear yellow liquid. |
| Odour: | Lemon fragrance |
| pH: | 5.0 – 6.5 (Neat) |
| Viscosity (cP @ 25°C): | 600 – 1100 |
| Vapor Pressure: | Not available |
| Vapor Density: | Not available |
| Boiling Point (°C): | ~ 100°C |
| Freezing Point (°C): | Not available |
| Melting Point (°C): | Not available |
| Solubility In Water: | Soluble |
| Specific Gravity (@ 25°C): | ~ 1.03 |
| Flash Point (°C): | Not available |
| Flammability | Non-flammable |
| Lower Explosive Limit (%): | Not available |
| Upper Explosive Limit (%): | Not available |
| Autoignition Temp (°C): | Not available |
| Decomposition Temp (°C): | Not available |

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10. STABILITY AND REACTIVITY

- 10.1 Reactivity:** Hazardous polymerisation will not occur.
- 10.2 Chemical Stability:** The product is stable under normal ambient conditions of temperature and pressure.
- 10.3 Conditions To Avoid:** Extremes of temperature and direct sunlight.
- 10.4 Incompatible Materials and Possible Hazardous Reactions:** Strong oxidising agents, strong acids.
- 10.5 Hazardous Decomposition Products:** Thermal decomposition may result in the release of toxic and/or irritating fumes, including oxides of carbon, nitrogen and sulphur.

11. TOXICOLOGICAL INFORMATION

- 11.1 Likely Route of Exposure:** Inhalation Skin contact Ingestion
- 11.2 Health Effects From Likely Route of Exposure:**
- Acute**
- Ingestion:** Low ingestion hazard in normal use. Considered an unlikely route of entry in commercial/industrial environments. Low toxicity. Large doses may result in nausea, vomiting and gastrointestinal irritation.
- Eye:** Irritant. Direct contact may produce irritation to the eye causing lachrymation, inflammation, pain and redness. Repeated or prolonged exposure to irritants may produce corneal damage or conjunctivitis.
- Skin:** No significant irritation expected from a single short-term exposure. Itching, redness and rash may occur in susceptible individuals. The material may accentuate pre-existing skin conditions.
- Inhalation:** Inhalation of vapours may cause irritation of the nose, throat and respiratory system.
- Chronic**
- Ingestion:** Repeated ingestion or swallowing large amounts may injure internally.
- Skin:** Prolonged or repeated skin contact may lead to dermatitis in some individuals.
- Inhalation:** Chronic exposure by inhalation may aggravate existing respiratory disorders.
- 11.3 Other Information:** No known applicable information.

12. ECOLOGICAL INFORMATION

- 12.1 Ecotoxicity:** Contains component which is toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
- 12.2 Persistence and Degradability:** Inherently degradable, slow degradation resultant of limited bioavailability, the materials degrade rapidly when dissolved in water.
- 12.3 Bioaccumulation Potential:** No bioaccumulation potential.
- 12.4 Mobility in Soil:** No information available.
- 12.5 Other Adverse Effects:** No adverse effects on bacteria are predicted.

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13. DISPOSAL CONSIDERATIONS

- 13.1 **Disposal Method:** Reclaim or dispose of in accordance with local and national regulations.
- 13.2 **Disposal of Contaminated Packaging** Empty container. Rinse container, remove or obliterate labelling before sending to landfill or recycler.
- 13.2 **Environmental Regulations:** Not applicable.

14. TRANSPORTATION INFORMATION

- 14.1 **UN Number:** Not applicable
- 14.2 **UN Proper Shipping Name:** Not applicable
- 14.3 **Dangerous Goods Class:** Not applicable
- Packing Group:** Not applicable
- 14.4 **Environmental Hazards:** Not applicable
- 14.5 **Special Precautions During Transport:** Not applicable
- 14.6 **HAZCHEM Code:** Not applicable
- Additional Shipping Information:** Not applicable

15. REGULATORY INFORMATION

- 15.1 **SUSDP Poisons Schedule:** Not applicable.
- 15.2 **Prohibition / Licensing Requirements:** There are no applicable prohibition or notification / licensing requirements, including for carcinogens under Commonwealth, State or Territory legislation.
- 15.3 **Industrial Chemicals (Notification and Assessment) Act 1989:** All ingredients are listed on, or exempt from, the *Australia Inventory of Chemical Substances (AICS)*.

16. OTHER INFORMATION

- 16.1 **Issue Date:** 21st May 2013
- 16.2 **Contact Points:**
- Title / Position:** Research & Development Manager
- Telephone:** (03) 5820 5204 (Australia: Weekdays 8.00am to 5.00pm)
- E-mail:** enquiries@pental.com.au
- 16.3 **After Hours Emergency Medical Assistance:** Poisons Information Centre
- Telephone:** 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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