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**MATERIAL SAFETY DATA SHEETS**

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**Sunlight Dishwashing Liquid Orange Blossom****Version: 2****Issued: 13<sup>th</sup> May 2013****Page 1 of 7**

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**CLASSIFICATION OF MATERIAL**

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Classified as hazardous according to criteria of the Hazardous Substances [Classification] Regulations 2001 (New Zealand)

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

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- 1.1 **Product:** Sunlight Dishwashing Liquid Orange Blossom
- 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 (Australia):** 48 Drummond Road, Shepparton, Victoria, 3630  
**Address (New Zealand):** Unit GE, 43 Omega Street, Rosedale, North Shore City, 0632
- 1.7 **Telephone Numbers:** (03) 5820 5200 (Australia), +64 27 6999229 (New Zealand)
- 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**

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- 2.1 **Hazard Classification:** Hazardous Substance. Non-Dangerous Goods.
- 2.2 **HSNO Classification:** 6.3A Substance that is irritating to the skin.  
8.3A Substance that is corrosive to ocular tissue.
- 2.3 **Hazard Statements:** H315 Causes skin irritation.  
H318 Causes serious eye damage.
- 2.4 **Prevention Statements:** P102 Keep out of reach of children.  
P103 Read label before use.  
P104 Read Safety Data Sheet before use.  
P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves, eye protection and face protection.
- 2.5 **Response Statements:** P101 If medical advice is needed, have product container or label at hand.  
P302+P352, P362, P332+P313 IF ON SKIN: wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation occurs: get medical advice/attention.  
P305+P351+P338, P310 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison centre or doctor /physician.
- 2.6 **Storage Statements:** No storage statements.
- 2.7 **Disposal Statements:** P501 Dispose of waste material through a licensed contractor or facility.

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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Proportion %
Water	7732-18-5	> 60
Anionic surfactants	68585-34-2, 68584-22-5	10 to 20
Urea	57-13-6	< 5
Sodium Chloride	7647-14-5	< 5
Sodium Hydroxide	1310-73-2	< 5
Fragrance	Proprietary	< 1
Formaldehyde	50-00-0	< 0.1
Dye	Proprietary	< 0.1

## 4. FIRST AID MEASURES

### 4.1 Description of Necessary First Aid Measures

<b>Ingestion:</b>	Do not induce vomiting. Immediately remove product from the mouth and wash out mouth with plenty of water. If symptoms develop, obtain medical attention.
<b>Eye:</b>	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. Seek immediate medical attention.
<b>Skin:</b>	Wash skin thoroughly with plenty of soap and water. Remove contaminated clothing and wash before re-use. If symptoms develop, obtain medical attention.
<b>Inhalation:</b>	Remove from source of exposure. Keep at rest until recovered. If symptoms persist, obtain medical attention.

### 4.2 Medical Attention and Special Treatment

<b>First Aid Facilities:</b>	An eye wash fountain, safety shower and general washing facility should be available immediately adjacent to the work area.
<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 Equipment:</b>	Use appropriate fire extinguisher for surrounding environment.
<b>5.2 Specific Hazards Arising From The Chemical:</b>	This product is non-flammable. This material may decompose and produce toxic and/or irritating fumes under fire conditions.
<b>5.3 Special Protective Equipment and Precautions 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.

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## 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Precautions, Protective Equipment and Emergency Procedures:** Avoid eye and skin 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 the New Zealand Hazardous Substances (Disposal) Regulations 2001.
- 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 exposure standards have been established for this material by the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. However, exposure standards for ingredients as defined by the Occupational Safety and Health Service (OSH) Workplace Exposure Standards and Biological Indices (December 2010) are stated below:

### Ingredients

Sodium Hydroxide  
(CAS No. 1310-73-2)

### Exposure Limits

Time Weighted Average (TWA): 2 mg/m<sup>3</sup> (Peak limitation) and - ppm.  
Short Term Exposure Limit (STEL): - mg/m<sup>3</sup> 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:

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 orange liquid.
Odour:	Orange fragrance
pH:	Not available
Viscosity	Slightly thickened
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):	1.02
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 Toxicology:** No toxicity data are available for this specific product.

## 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 predicted.

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## 13. DISPOSAL CONSIDERATIONS

- 13.1 Disposal Method:** Reclaim or dispose of in accordance with the New Zealand Hazardous Substances (Disposal) Regulations 2001.
- 13.2 Disposal of Contaminated Packaging:** Empty container. Rinse container, remove or obliterate labelling before sending to landfill or recycler.
- 13.3 Environmental Regulations:** Performed in accordance with the New Zealand Hazardous Substances (Disposal) Regulations 2001.

## 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 Regulatory Information:** All ingredients are listed on, or exempt from, the *New Zealand Inventory of Chemicals (NZIoC)*.
- 15.2 Group Standard:** Cleaning Products (Subsidiary Hazard) Group Standard 2006
- 15.3 HSNO Approval Number:** HSR002530

## 16. OTHER INFORMATION

- 16.1 Issue Date:** 13<sup>th</sup> 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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