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## MATERIAL SAFETY DATA SHEETS

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**Martha Gardener Sureguard**

**Insurance For Your Clothes Ministrip  
Moth & Silverfish Repellent**

**Version: 2**

**Issued: 19<sup>th</sup> March 2014**

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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)**

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### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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- 1.1 Product:** Martha Gardener Sureguard Insurance For Your Clothes  
Ministrip Moth & Silverfish Repellent
- 1.2 UN Proper Shipping Name:** Camphor
- 1.3 Recommended Use:** Moth & Silverfish Repellent
- 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
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### 2. HAZARDS IDENTIFICATION

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- 2.1 Hazard Classification:** Hazardous Substance. Dangerous Goods Class 4.1.
- 2.2 HSNO Classification** 4.1.1B Readily combustible solids: low hazard.  
6.1D Acutely toxic (oral).  
6.3B Mildly irritating to the skin.  
6.4A Irritating to the eye.  
6.5B Contact sensitisers.  
6.9B Harmful to human target organs or systems (oral).  
9.1B Very ecotoxic in the aquatic environment.  
9.3C Harmful to terrestrial vertebrates.
- 2.3 Hazard Statements:** H228 Flammable solid.  
H302 Harmful if swallowed.  
H316 Causes mild skin irritation.  
H320 Causes eye irritation.  
H317 May cause an allergic skin reaction.  
H371 May cause damage to organs.  
H411 Toxic to aquatic life with long lasting effects.  
H433 Harmful to terrestrial vertebrates.
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- 2.4 Prevention Statements:** P102 Keep out of reach of children.  
P103 Read label before use.  
P104 Read Safety Data Sheet before use.  
P201 Keep away from heat/sparks/open flames. No smoking.  
P260 Do not breathe dust/vapours.  
P261 Avoid breathing dust and vapours.  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.
- 2.5 Response Statements:** P101 If medical advice is needed, have product container or label at hand.  
P301+P312 IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. P330 Rinse mouth. P331 Do NOT induce vomiting.  
P332+P313 If skin irritation occurs: Get medical advice/ attention.  
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 advice/attention.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P363 Wash contaminated clothing before reuse.  
P309+P311 IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician.  
P391 Collect spillage.
- 2.6 Storage Statements:** P405 Store locked up.
- 2.7 Disposal Statements:** P501 Dispose of waste material through a licensed contractor or facility.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Proportion %
Camphor	76-22-2	100

## 4. FIRST AID MEASURES

### 4.1 Description of Necessary First Aid Measures

**Ingestion:**

If swallowed, do not induce vomiting. Immediately remove product from the mouth and rinse mouth out with plenty of water. Avoid giving milk or oils. Obtain immediate medical attention.

**Eye:**

Immediately hold the eyes open and wash with fresh running water for 15 minutes. 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. If irritation persists or develops, obtain immediate medical attention.

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- Skin:** Wash skin thoroughly with water and non-abrasive soap. Remove contaminated clothing. Obtain medical attention if symptoms persist or develop.
- Inhalation:** Remove from source of exposure. Ensure airways are clear and have a qualified person give oxygen through a facemask if breathing is difficult. Obtain immediate medical attention if symptoms persist or develop.

## 4.2 Medical Attention and Special Treatment

- First Aid Facilities:** An eye wash fountain, safety shower and a 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:** Flammable. On large fires use carbon dioxide, dry chemical, or foam. On small fires use carbon dioxide (CO<sub>2</sub>), dry chemical or foam. Water spray can be used to cool fire exposed containers.
- 5.2 Specific Hazards Arising From The Chemical:** Combustible substance. Remove all heat and ignition sources. May evolve explosive vapours when heated. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion. This material will emit toxic fumes under fire conditions. On combustion may emit toxic fumes, carbon dioxide and carbon monoxide.
- 5.3 Special Protective Precautions and Equipment 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.

## 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. Increase ventilation. Use full protective clothing and equipment to minimise exposure. Eliminate all sources of ignition. Avoid generating dust.
- 6.2 Environmental Precautions:** 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.

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## 6.3 Methods and Materials for Containment and Clean Up:

Observe all personal protective equipment recommendations described in this MSDS. Minor Spills: Scoop up spill and place into a suitable labelled container. Major Spills: Contain spill. Use non-sparking tools, shovel material into clean, dry, suitable labelled containers and close lids tightly. Wash contaminated surfaces well with water. Laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which laws and regulations are applicable.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for Safe Handling:

Use with adequate ventilation. Avoid eye contact. Avoid prolonged contact with the skin. Do not take internally. Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

### 7.2 Conditions for Safe Storage, Including Any Incompatibilities:

Store in a cool, dry, well ventilated area, out of direct sunlight. Keep well closed when not in use. Avoid sparks, flames and other ignition sources. Store away from incompatible materials, such as oxidising agents.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 National Exposure Standards: Exposure limits for Camphor as defined by the Occupational Safety and Health Service (OSH) Workplace Exposure Standards and Biological Indices (December 2010) are stated below:

#### Ingredients

Camphor  
(CAS No. 76-22-2)

#### Exposure Limits

Time Weighted Average (TWA): 12.0 mg/m<sup>3</sup> and 2 ppm.  
Short Term Exposure Limit (STEL): 19.0 mg/m<sup>3</sup> and 3 ppm.

### 8.2 Biological Limit Values:

No biological limit allocated.

### 8.3 Engineering Controls:

Ensure adequate ventilation. Maintain air concentrations below exposure limits.

### 8.4 Personal Protective Equipment:

#### Respiratory

Domestic quantities require no special equipment with normal careful use. When handling bulk quantities. Avoid breathing dusts or vapours. Where ventilation is inadequate and dusts 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. Do not wear contact lenses. Ensure eyewash is available. Eye protection should conform with AS/NZS 1337 Eye protectors for industrial applications.

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## Skin

Domestic quantities require no special equipment with normal careful use. Care should be taken with sensitive or damaged skin. For large quantities, wear nitrile, rubber or neoprene gloves, Refer to AS/NZS 2161.1 Occupational protective gloves – Selection use and maintenance.

Wear appropriate clothing, including a chemical resistant apron, coveralls and enclosed footwear. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial Clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Physical Description / Properties

<b>Appearance:</b>	White solid contained inside a plastic hanger
<b>Odour:</b>	Characteristic camphor odour.
<b>pH:</b>	Not applicable
<b>Vapor Pressure:</b>	4 mm/Hg
<b>Vapor Density:</b>	Not applicable
<b>Boiling Point (°C):</b>	204°C
<b>Freezing Point (°C):</b>	Not applicable
<b>Melting Point (°C):</b>	176°C
<b>Solubility In Water:</b>	Practically insoluble in water
<b>Specific Gravity (@ 25°C):</b>	Not applicable
<b>Flash Point (°C):</b>	Not available
<b>Flammability:</b>	Flammable
<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 Reactivity:</b>	Hazardous polymerisation will not occur.
<b>10.2 Chemical Stability:</b>	The product is stable under normal ambient conditions of temperature and pressure.
<b>10.3 Conditions To Avoid:</b>	Sparks, flames and other ignition sources. Direct sunlight and heat.
<b>10.4 Incompatible Materials and Possible Hazardous Reactions:</b>	Strong Oxidisers, potassium permanganate and chromic anhydride.
<b>10.5 Hazardous Decomposition Products:</b>	Toxic gases, carbon dioxide and carbon monoxide.

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## 11. TOXICOLOGICAL INFORMATION

11.1 Likely Route of Exposure:  Inhalation  Skin contact  Ingestion

11.2 Health Effects From Likely Route of Exposure:

### Acute

**Ingestion:**

Harmful if swallowed. Can kill if swallowed or sucked. May cause irritation of the gastrointestinal system. Symptoms may include; pain, nausea, vomiting and diarrhoea. Can cause central nervous system effects resulting in restlessness, excitement, delirium and seizures.

**Eye:**

Irritating to eyes. Irritation will result in redness, swelling, lachrymation and stinging.

**Skin:**

Harmful in contact with the skin. Camphor is rapidly and readily absorbed through the skin, with symptoms similar to inhalation and ingestion exposure. Will cause irritation in contact with the skin. Symptoms include; redness, itching and possibly dermatitis.

**Inhalation:**

Harmful by inhalation. Can kill if inhaled. Will cause irritation of the mucous membranes and upper airways, especially if the material is heated or if mists are generated. Symptoms include; coughing, headache, dizziness, nausea, vomiting and loss of co-ordination.

### Chronic

**Ingestion:**

Harmful if swallowed. Can kill if swallowed or sucked

**Skin:**

Prolonged or repeated contact with this material may result in skin irritation leading to dermatitis.

**Inhalation:**

Repeated inhalation of high concentrations may lead to damage of the liver and kidneys.

11.3 Other Information: No known applicable information.

## 12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity: Toxic to aquatic life with long lasting effects. Harmful to terrestrial vertebrates.

12.2 Persistence and Degradability: No information available.

12.3 Bioaccumulation Potential: No information available.

12.4 Mobility in Soil: No information available.

12.5 Other Adverse Effects: No information available.

## 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: Dispose of empty container by wrapping in paper, place in plastic bag and dispose of in landfill.

13.3 Environmental Regulations: Performed in accordance with the New Zealand Hazardous Substances (Disposal) Regulations 2001.

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## 14. TRANSPORTATION INFORMATION

14.1	UN Number:	2717
14.2	UN Proper Shipping Name:	Camphor, synthetic.
14.3	Dangerous Goods Class:	4.1
	Packing Group:	III
14.4	Environmental Hazards:	Toxic to aquatic life with long lasting effects. Harmful to terrestrial vertebrates.
14.5	Special Precautions During Transport:	Harmful, Flammable.
14.6	HAZCHEM Code:	1 [Z]
	Additional Shipping Information:	Classified as a Class 4 Dangerous Good by the Australian Code for Transport of Dangerous Goods by Road or Rail. Dangerous Goods of Class 4.1 Flammable Solids are incompatible in a placard load with any of the following: Class 1, Class 2.1, Class 4.2, Class 5 and Class 7.

## 15. REGULATORY INFORMATION

15.1	Regulatory Information:	All ingredients are listed on or exempt from the New Zealand Inventory of Chemicals (NZIoC).
15.2	HSNO Approval Number:	HSR001270.

## 16. OTHER INFORMATION

16.1	Issue Date:	19 <sup>th</sup> March 2014
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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