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**MATERIAL SAFETY DATA SHEETS**

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Little Lucifer Firelighters

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**CLASSIFICATION OF MATERIAL**

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Not 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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1.1	<b>Product:</b>	Little Lucifer Firelighters
1.2	<b>UN Proper Shipping Name:</b>	Not applicable
1.3	<b>Recommended Use:</b>	Firelighters
1.4	<b>Supplier:</b>	Pental Products Pty Ltd
1.5	<b>A.B.N:</b>	68 103 213 467
1.6	<b>Address:</b>	48 Drummond Road, Shepparton, Victoria, 3630
1.7	<b>Telephone Number:</b>	(03) 5820 5200 (Australia).
1.8	<b>Facsimile:</b>	(03) 5820 5221 (Australia).
1.9	<b>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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2.1	<b>Hazard Classification:</b>	Non Hazardous Substance. Non Dangerous Goods.
2.2	<b>Risk Phrase(s):</b>	Nil.
2.3	<b>Safety Phrases:</b>	S24 Avoid contact with skin.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

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Chemical Name	CAS Number	Proportion %
Paraffin	64771-72-8	> 60
Urea Formaldehyde Resin <sup>1</sup>	9011-05-6	< 20
Water	7732-18-5	< 20
Emulsifier	68081-81-2	< 0.5
Hydrochloric Acid	7647-01-0	< 0.5

<sup>1</sup> Contains formaldehyde at a maximum concentration of 1.5%.

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## 4. FIRST AID MEASURES

### 4.1 Description of Necessary First Aid Measures

<b>Ingestion:</b>	Do not induce vomiting. Give 2 glasses of water to drink and obtain medical attention.
<b>Eye:</b>	Immediately flush with water for at least 15 minutes. If irritation develops, obtain medical attention.
<b>Skin:</b>	Remove any contaminated clothing. Wash off skin with soap and water. If irritation develops, obtain medical attention.
<b>Inhalation:</b>	Remove from source of exposure. Monitor symptoms and progress to assess the need for medical attention.

### 4.2 Medical Attention and Special Treatment

<b>First Aid Facilities:</b>	Eye wash station.
<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>	On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO <sub>2</sub> ), dry chemical or water spray. Water can be used to cool fire exposed containers.
<b>5.2 Hazards From Combustion Products:</b>	Carbon oxides and traces of incompletely burned carbon compounds. Sulphur oxides. Nitrogen oxides.
<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>	None allocated

## 6. ACCIDENTAL RELEASE MEASURES

<b>6.1 Emergency Procedures:</b>	Use full protective equipment and clothing to minimise exposure.
<b>6.2 Methods and Materials for Containment and Clean Up:</b>	Determine whether to evacuate or isolate the area according to your local emergency plan. 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. Shovel material into clean, dry, suitable labelled containers and close lids tightly. 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.

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## 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:** Store in a cool, dry, well ventilated area, out of direct sunlight. 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 have been set for the following ingredients 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):

### Ingredients

Hydrochloric Acid  
(CAS No. 7647-01-0)

### Exposure Limits

Time Weighted Average (TWA): 7.5 mg/m<sup>3</sup> and 5 ppm.  
Short Term Exposure Limit (SETL): Peak Limitation.

Formaldehyde  
(CAS No. 50-00-0)

Time Weighted Average (TWA): 1.2 mg/m<sup>3</sup> and 1 ppm.  
Short Term Exposure Limit (SETL): 2.5 mg/m<sup>3</sup> and 2 ppm.  
Carcinogen Category: 2

- 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, if ventilation is insufficient, a suitable respirator should be worn.

### Eye

Domestic quantities require no special equipment with normal careful use. Wear safety glasses or goggles or face shield if handling large quantities. Do not wear contact lenses. Ensure eyewash is available.

### Skin

Domestic quantities require no special equipment with normal careful use. Care should be taken with sensitive or damaged skin. For large quantities, wear PVC or rubber gloves, coveralls (plastic aprons may be required) and enclosed footwear.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Physical Description / Properties**

### Appearance:

White, opaque solid.

### Odour:

Characteristic paraffin odour.

### pH:

Not applicable

### Viscosity (cP @ 25°C):

Not applicable

### Vapor Pressure:

< 0.1 kPa at 40°C (Solvent)

### Vapor Density:

> 5 (Solvent)

### Boiling Point (°C):

170 – 290°C (Solvent)

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Freezing Point (°C):	Not determined
Melting Point (°C):	Not applicable
Solubility In Water (g/100 mL):	Insoluble
Specific Gravity (@ 25°C):	~0.8 g/mL
Flash Point (°C):	> 63°C (Solvent)
Lower Explosive Limit (%):	0.5% (Solvent)
Upper Explosive Limit (%):	6.0% (Solvent)
Autoignition Temp (°C):	Not determined
Decomposition Temp (°C):	Not determined

## 10. STABILITY AND REACTIVITY

10.1 Chemical Stability:	The product is stable under normal ambient conditions of temperature and pressure.
10.2 Conditions To Avoid:	Sparks, flames and other ignition sources.
10.3 Incompatible Materials:	Strong Oxidizers.
10.4 Hazardous Decomposition Products:	Oxides of Carbon, Nitrogen and Sulphur.
10.5 Hazardous Reactions:	Hazardous polymerisation will not occur.

## 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. May result in irritation of the upper gastrointestinal tract.
Eye:	Direct contact may produce irritation to the eye causing lacrimation, inflammation, pain and redness.
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:	Considered an unlikely route of entry in commercial/industrial environments.

#### Chronic

Ingestion:	Repeated ingestion or swallowing large amounts may injure internally.
Skin:	The material may cause skin irritation after prolonged or repeated exposure in susceptible individuals and may produce a contact dermatitis (non-allergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis.
Inhalation:	No known applicable information. Intentional misuse by concentrating/inhaling contents may be injurious to health or lethal.

11.3 Other Information: No known applicable information.

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## 12. ECOLOGICAL INFORMATION

- 12.1 Ecotoxicity:** No acute toxicity to aquatic organisms is expected at the maximum water solubility of this material. Long term adverse effects to aquatic organisms are not expected.
- Bioaccumulation:** No bioaccumulation potential.
- 12.2 Environmental Fate and Distribution:** This paraffin component of this product is expected to biodegrade at a moderate rate and be "inherently" biodegradable according to OECD guidelines.
- 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: Incineration or dispose in household waste.  
Large amounts: Incineration. Reclaim or dispose of in accordance with local, state and federal regulations.
- 13.2 Special Precautions for Landfill or Incineration:** None known.

## 14. TRANSPORTATION INFORMATION

- 14.1 UN Number:** Not relevant.
- 14.2 UN Proper Shipping Name:** Not relevant.
- 14.3 Dangerous Goods Class:** Not relevant.
- Packing Group:** Not relevant.
- 14.4 Special Precautions for User:** Not relevant.
- 14.5 HAZCHEM Code:** Not relevant.
- Additional Shipping Information:** Not relevant.

## 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 *Australian Inventory of Chemical Substances (AICS)*.

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## 16. OTHER INFORMATION

- 16.1 Issue Date:** 21<sup>st</sup> May 2009
- 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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