



MATERIAL SAFETY DATA SHEETS

Little Lucifer Firelighters

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CLASSIFICATION OF MATERIAL

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

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1	Product:	Little Lucifer Firelighters
1.2	UN Proper Shipping Name:	None allocated
1.3	Recommended Use:	Firelighters
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

2.1	Hazard Classification:	Hazardous Substance. Non-Dangerous Goods.
2.2	HSNO Classification:	6.1E Substance that is acutely toxic (oral). 6.5B Substance that is a contact sensitiser.
2.3	Hazard Statements:	H303 May be harmful if swallowed. H317 May cause an allergic skin reaction.
2.4	Prevention Statements:	P102 Keep out of reach of children. P103 Read label before use. P104 Read Safety Data Sheet before use. P261 Avoid breathing vapours. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves.
2.5	Response Statements:	P101 If medical advice is needed, have product container or label at hand. P312 Call a POISON CENTRE or doctor/physician if you feel unwell. P313 Do NOT induce vomiting. P302+P352, P333+P313, P363 IF ON SKIN: wash with plenty of soap and water. If skin irritation or rash occurs: get medical advice/attention. Wash contaminated clothing before re-use.
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 %
Paraffin	64771-72-8	> 60
Urea Formaldehyde Resin ¹	9011-05-6	10 to 20
Water	7732-18-5	10 to 20
Sodium Dodecylbenzene Sulphonate	25155-30-0	< 0.5
Hydrochloric Acid	7647-01-0	< 0.1

¹ Contains formaldehyde at a maximum concentration of 0.5%

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. Give two glasses of water to drink and 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 irritation develops, obtain medical attention.
Skin:	Wash skin thoroughly with plenty of soap and 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:	On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO ₂), dry chemical or water spray. Water can be used to cool fire-exposed containers.
5.2 Specific Hazards Arising From The Chemical:	Carbon oxides and traces of incompletely burned carbon compounds. Sulphur oxides. Nitrogen oxides.
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 skin contact. Determine whether to evacuate or isolate the area according to your local emergency plan. Evacuate all unprotected personnel. Use full protective clothing and equipment to minimise exposure.
- 6.2 Environmental Precautions:** 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. 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. 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 eye contact. Avoid prolonged contact with the skin. 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, 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:** 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

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

Formaldehyde
(CAS No. 50-00-0)

Exposure Limits

Time Weighed Average (TWA): 7.5 mg/m³ and 5 ppm.
Short Term Exposure Limit (STEL): - mg/m³ and - ppm.

Time Weighed Average (TWA): 1 ppm.
0.5 ppm (8 Hour shift), 0.33 ppm (12 hour shift)
Short Term Exposure Limit (STEL): - mg/m³ 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:	White, opaque solid.
Odour:	Characteristic paraffin odour.
pH:	Not applicable
Viscosity	Not applicable
Vapor Pressure:	< 0.1 kPa at 40°C (Solvent)
Vapor Density:	> 5 (Solvent)
Boiling Point (°C):	170 to 290°C (Solvent)
Freezing Point (°C):	Not determined
Melting Point (°C):	Not applicable
Solubility In Water:	Insoluble
Specific Gravity (@ 25°C):	~0.8 g/mL
Flash Point (°C):	> 63°C (Solvent)
Flammability	Flammable
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 Reactivity: Hazardous polymerisation will not occur.

10.2 Chemical Stability: The product is stable under normal ambient conditions of temperature and pressure.

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- 10.3 Conditions To Avoid:** Extremes of temperature and direct sunlight. Sparks, flames and other ignition sources.
- 10.4 Incompatible Materials:** Strong oxidising agents.
- 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. May result in irritation of the upper gastrointestinal tract.
- Eye:** Direct contact may produce irritation to the eye causing lachrymation, 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:** 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:** 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.
- 12.2 Persistence and Degradability:** The paraffin component of this product is expected to biodegrade at a moderate rate and be "inherently" biodegradable according to OECD guidelines.
- 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.

13. DISPOSAL CONSIDERATIONS

- 13.1 Disposal Method:** Single unit: Incineration or dispose in household waste.
Large amounts: Incineration.
- 13.2 Disposal of Contaminated Packaging:** Incineration or dispose in household waste.

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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 for User: 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: N.O.S. (Subsidiary Hazard) Group Standard 2006

15.3 HSNO Approval Number: HSR002624

16. OTHER INFORMATION

16.1 Issue Date: 27th August 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:

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