

# MATERIAL SAFETY DATA SHEET

Date of Issue: 01.03.2016

## PIRFORMATHERM® INSULATION

### 1. Product and company identification

Product Name:	PIRFORMATHERM® Insulation
Product Use:	Thermal insulation for residential and commercial building applications.
Supplier Name:	Fletcher Insulation Pty Ltd
Address:	600 Woodstock Avenue, Rooty Hill NSW 2766
Telephone Number:	1300 654 444
Emergency Telephone:	1300 654 444

### 2. Hazards identification

NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. ACCORDING TO NOHSC CRITERIA, AND ADG CODE.

Risk:	None under normal operating conditions.
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### 3. Composition/information on ingredients

Name	CAS RN	%
Rigid polyurethane/polyisocyanurate foam made of polyurethane polymer or isocyanurate homopolymer. blowing agent as, n - pentane	109-66-0	>90 <10

### 4. First aid measures

Swallowed:	Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.
Eyes:	If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin:	If skin or hair contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhaled:	If dust is inhaled, remove from contaminated area. Encourage patient to blow nose to ensure clear passage of breathing. If irritation or discomfort persists seek medical attention.
Notes to Physician:	Treat symptomatically

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## 5. Fire fighting measures

Extinguishing Media:	Foam. Dry chemical powder. BCF (where regulations permit). Carbon dioxide.
Fire Fighting:	Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water courses. Use water delivered as a fine spray to control fire and cool adjacent area. Slight hazard when exposed to heat, flame and oxidisers.
Fire / Explosion Hazard:	Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). Combustion products include: carbon dioxide (CO <sub>2</sub> ), hydrogen chloride, phosgene, nitrogen oxides (NO <sub>x</sub> ), phosphorus oxides (PO <sub>x</sub> ), other pyrolysis products typical of burning organic material.
Fire Incompatibility:	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result.
Hazchem:	None

## 6. Accidental release measures

Minor Spills:	Clean up all spills immediately. Secure load if safe to do so. Bundle/collect recoverable product. Collect remaining material in containers with covers for disposal.
Major Spills:	Minor hazard. Clear area of personnel. Alert Fire Brigade and tell them location and nature of hazard. Wear physical protective gloves e.g. Leather.
Personal Protective Equipment advice is contained in Section 8 of the MSDS.	

## 7. Storage and handling

Procedure for Handling:	Limit all unnecessary personal contact. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Avoid contact with incompatible materials.
Suitable Container:	Packaging as recommended by manufacturer. Check that containers are clearly labelled and free from leaks.
Storage Incompatibility:	Avoid reaction with oxidising agents.
Storage Requirements:	Keep dry. Store under cover. Protect containers against physical damage. Observe manufacturer's storage and handling recommendations contained within this MSDS.

## 8. Exposure controls/personal protection

Material Data:	<p>PiRFORMATHERM® Insulation: None assigned. Refer to individual constituents.</p> <p>N-PENTANE: For n-pentane NOTE: Detector tubes for n-pentane, measuring in excess of 100 ppm, are commercially available. The TLV-TWA is thought to be protective against narcotic effects produced at higher concentrations and the development of axonopathies.</p>
Personal Protection:	-
Respirator:	Type AX Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)
Eyes:	<p>No special equipment required due to the physical form of the product.</p> <p>When sawing, machining or sanding use: Safety glasses with side shields. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent].</p>
Hands/feet:	Wear general protective gloves, eg. light weight rubber gloves.
Other:	<p>No special equipment needed when handling small quantities.</p> <p>OTHERWISE: Overalls. Barrier cream. Eyewash unit.</p>
Engineering Controls:	<p>Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.</p> <p>The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.</p>

## 9. Physical and chemical properties

Appearance:	Cellular solid with no odour; insoluble in water.
Physical Properties:	<p>Does not mix with water. Floats on water.</p> <p>State: Manufactured Melting Range (°C): Not Applicable Boiling Range (°C): Not Applicable Flash Point (°C): Not Available Decomposition Temp (°C): Not Available Autoignition Temp (°C): Not Available Upper Explosive Limit (%): Not Available Lower Explosive Limit (%): Not Available Volatile Component (%vol): Not Available Molecular Weight: Not Applicable Viscosity: Not Available Solubility in water (g/L): Immiscible pH (1% solution): Not Applicable pH (as supplied) Not Applicable Vapour Pressure (kPa): Not Available Specific Gravity (water=1): 0.035- 0.042 Relative Vapour Density: Not Applicable, (air=1) Evaporation Rate: Not Applicable</p>

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## 10. Stability and reactivity

Conditions Contributing to Instability:	Presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur. For incompatible materials - refer to Section 7 - Handling and Storage.
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## 11. Toxicological information

Potential Health Effects:	-			
Acute Health Effects:	-			
Swallowed:	Considered an unlikely route of entry in commercial/industrial environments. Not normally a hazard due to the physical form of product. The material is a physical irritant to the gastrointestinal tract.			
Eyes:	Not normally a hazard due to physical form of product Generated dust may be discomforting.			
Skin	Not normally a hazard due to physical form of product. Generated dust may be discomforting. Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.			
Inhaled:	Not normally a hazard due to non-volatile nature of product.			
Chronic Health Effects:	This manufactured article is considered to have low hazard potential if handling and personal protection recommendations are followed.			
Toxicity and Irritation:	No significant acute toxicological data identified in literature search.			
Skin:	n- pentane	GESAMP/EHS Composite List - GESAMP Hazard Profiles	D1: skin Profiles irritation/corrosion	1

## Section 12 - Ecological information

Ecotoxicity:	Ingredient	Persistence	Persistence	Bioaccumulation	Mobility
	n- pentane	Water/Soil HIGH	Air No Data Available	LOW	HIGH

## Section 13 - Disposal considerations

Disposal Considerations:	Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Authority for disposal. Bury or incinerate residue at an approved site. Recycle containers if possible, or dispose of in an authorised landfill.
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## Section 14 - Transportation information

Hazchem:	None (ADG7) NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS: ADG7, IATA, IMDG
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## Section 15 - Regulatory information

Poisons Schedule:	None
Regulations for Ingredients:	<p>n-pentane (CAS: 109-66-0) is found on the following regulatory lists;</p> <p>“Australia FAISD Handbook - First Aid Instructions, Warning Statements, and General Safety Precautions”,</p> <p>“Australia Hazardous Substances”,</p> <p>“Australia High Volume Industrial Chemical List (HVICL)”,</p> <p>“Australia Inventory of Chemical Substances (AICS)”,</p> <p>“Australia National Pollutant Inventory”,</p> <p>“Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix E (Part 2)”,</p> <p>“Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4”,</p> <p>“Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5”,</p> <p>“FisherTransport Information”,</p> <p>“International Fragrance Association (IFRA) Survey: Transparency List”,</p> <p>“OECD List of High Production Volume (HPV) Chemicals”,</p> <p>“OSPAR National List of Candidates for Substitution – Norway”,</p> <p>“Sigma-AldrichTransport Information”</p> <p>No data for Fletcher Insulation PIR (CW: 35-9019)</p>

## Section 16 - Other information

Additional Information and Reference Documents
<p>Poisons Information Centre 13 11 26 (Australia Wide)</p> <p>National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)], April 2003</p> <p>Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references. A list of reference resources used to assist the committee may be found at: <a href="http://www.chemwatch.net/references">www.chemwatch.net/references</a>.</p> <p>The MSDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.</p> <p>This MSDS was correct at the time it was prepared (see below for the date). The Supplier, as part of its Health and Safety Programme, updates MSDS's when its ongoing review process indicates a need for a change to be made. You should make sure that the MSDS you are reading and relying on is current. You can do this by contacting the Supplier at the above address.</p>

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MSDS Revision Summary
<p>Supercedes Issue Date: MSDS19_Rev0_01.07.2014</p> <p>Reasons for Issue: Addition of new products</p>

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