



# SAFETY DATA SHEET

According to Safe Work Australia

Printing date 27.09.2013

Revision: 27.09.2013

## 1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name:** THERM O LAG BIO SOLUBLE FIBERGLASS PIPE SECTIONS

**Other Name:** Glasswool, glass fibre

**Recommended Use of the Chemical and Restriction on Use:**

Thermal, acoustic and cold insulation of heating, cooling and process piping and equipment in domestic and commercial premises.

**Details of Manufacturer or Importer:**

FM Insulation Supplies  
6/10 Bromley Road  
Emu Plains NSW 2750

**Phone Number:** 02 4735 5699

**Emergency telephone number:** 0417 230 030

## 2 . HAZARDS IDENTIFICATION

**Hazardous Nature:** The product is not classified according to the Globally Harmonized System (GHS).

**Label Elements**

**Signal Word** Void

**Hazard Statements** Void

**Additional Information**

The product is a yellow-orange mat supplied in different shapes and sizes. It can be rigid or flexible with facings of reinforced foil, calico, wire etc.

Glasswool insulation, once installed, is not a source of dust and is not known to cause any health effects. Handling, installing or removing the product may result in some dust.

Products designed for high temperature applications (above 177 °C) may release irritating gases (carbon dioxide, formaldehyde and amines) during initial heat-up. In confined or poorly ventilated places use of Class 1 respirators during the first heat-up cycle are recommended.

## 3 . COMPOSITION AND INFORMATION ON INGREDIENTS

**Chemical Characterization: Mixtures**

**Description:**

Mineral glasswool fibre, amorphous ( non-crystalline) and bio-soluble made of >85% fibres and <15% particles. The fibres may range from <1 to >20 microns. Heat cured resin and mineral oil bind the fibres and particles together and minimise their release during the handling of product.

The product contain less than 0.1% free formaldehyde and phenol. The cured resin is stable at ambient temperature and under normal conditions of use.

**Hazardous Components:** Void

## 4 . FIRST AID MEASURES

**Inhalation:** If inhaled, remove to fresh air. Seek medical attention if breathing problems develop.

**Skin Contact:**

In case of skin contact, immediately remove contaminated clothing and flush off affected areas with water, preferably running. If itch or discomfort persists, seek medical attention.

**Eye Contact:**

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

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**Ingestion:**

If swallowed, do not induce vomiting. Rinse mouth and give water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention.

**Information for Doctor****Symptoms Caused by Exposure:**

Handling the product may create dust and fibres (>3 microns) . Dust and fibres may irritate eyes, skin and respiratory tract.

Inhalation: May cause irritation or soreness of throat and nose.

Eye: May cause temporary irritation, watering and redness.

Skin: May cause itchiness or rash.

## 5 . FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Use fire extinguishing methods suitable to surrounding conditions.

**Specific Hazards Arising from the Chemical:**

Non flammable. It will not burn. Packaging may be combustible.

**Special Protective Equipment and Precautions for Fire Fighters:**

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.

## 6 . ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear a Safe Work Australia approved Class 1 particulate respirator particularly in enclosed or poorly ventilated areas or during the first heat-up cycle in high temperature applications, protective gloves and loose fitting overalls and safety glasses with top and side shields or goggles. Evacuate all non-essential personnel from affected area. Do not breathe dust. Ensure adequate ventilation. Avoid dust generation and collection.

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses.

**Methods and Materials for Containment and Cleaning Up:**

Spilled area should be wet down with water to reduce dust generation before cleanup. A surfactant may be added to the water to improve wetting process. Do not allow water to accumulate on floors. Pick up large pieces, sweep and place into a sealable container to prevent waste material from becoming airborne or remove dust by using a vacuum cleaner fitted with high efficiency filter (HEPA). Never use compressed air to collect fibres as smallest particles remain airborne.

## 7 . HANDLING AND STORAGE

**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust. Maintain a good standard of cleanliness. Avoid generation and collection of dust. Work areas must be regularly cleaned of off-cuts and loose fibres, which should be sealed in plastic disposal bags or other sealable containers.

Where possible, the glasswool material should be ordered in a form or shape which requires a minimum of cutting on a site. Hand tools generate the least amount of dust and fibres. If power tools are used directly on the product, appropriate dust collection systems are recommended.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing separately from other clothes to prevent possible glasswool fiber migration. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

**Conditions for Safe Storage:**

Store in original packaging in a cool, dry and well ventilated area. Avoid physical damage. Minimize airborne dusts by avoiding the unnecessary disturbance of product. Do not leave outside where the material may be exposed to the wind and fibres become airborne. Do not re-use product packaging. It may contain residues.

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Protect from exposure to direct sunlight for a long period of time.

## 8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure Standards (Safe Work Australia):**

Nuisance dust:

TWA - 10 mg/m<sup>3</sup> (total dust)TWA - 2 mg/m<sup>3</sup> (inspirable dust)**50-00-0 formaldehyde**

NES	Short-term value: 2.5 mg/m <sup>3</sup> , 2 ppm Long-term value: 1.2 mg/m <sup>3</sup> , 1 ppm
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**Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of dust below occupational exposure standards.

**Personal Protective Equipment (PPE):****Respiratory Protection:**

Use a Safe Work Australia approved Class 1 particulate respirator particularly in enclosed or poorly ventilated areas or during the first heat-up cycle in high temperature applications. See Australian Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

Protective gloves and loose fitting overalls. See Australian Standards AS/NZS 2161, 2210.1 and 2210.2 for more information.

**Eye and Face Protection:**

Safety glasses with top and side shields or goggles. See Australian Standards AS/NZS 1336 and 1337 for more information.

## 9 . PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:**

<b>Form:</b>	Fibrous mat / blanket
<b>Colour:</b>	Yellow
<b>Odour:</b>	Odourless or faint amine odour
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	Not applicable.
<b>Melting point/Melting range:</b>	>704 °C
<b>Initial Boiling Point/Boiling Range:</b>	Not applicable
<b>Flash Point:</b>	Not applicable.
<b>Flammability:</b>	Non flammable
<b>Auto-ignition Temperature:</b>	Not applicable
<b>Decomposition Temperature:</b>	>300 °C
<b>Explosion Limits:</b>	
<b>Lower:</b>	Not applicable
<b>Upper:</b>	Not applicable
<b>Vapour Pressure:</b>	Not applicable.
<b>Relative Density:</b>	No information available
<b>Vapour Density:</b>	Not applicable.
<b>Evaporation Rate:</b>	Not applicable.
<b>Solubility in Water:</b>	Insoluble

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## 10 . STABILITY AND REACTIVITY

**Possibility of Hazardous Reactions:** Hazardous polymerisation will not occur.

**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.

**Conditions to Avoid:** No information available

**Incompatible Materials:** Acids, alkalis or organic solvents may cause degradation of resin binder.

**Hazardous Decomposition Products:** No information available

## 11 . TOXICOLOGICAL INFORMATION

**Toxicity:**

**Acute Health Effects**

**Inhalation:** Dust may cause irritation or soreness of throat and nose.

**Skin:** May cause itchiness or rash.

**Eye:** May cause temporary irritation, watering and redness.

**Ingestion:** Ingestion is unlikely. May result in temporary itching of the lips, mouth and throat.

**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.

**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.

**Respiratory or Skin Sensitisation:** No sensitising effects known.

**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.

**Carcinogenicity:**

Formaldehyde is classified by IARC as Group 1 - Carcinogenic to humans.

Glasswool fibres are biosoluble, which means that any fibres inhaled into the lungs dissolve in body fluids and are then cleared from the lungs. They have low biopersistence. Safe Work Australia do not classify mineral wool fibres with high bio-solubility as carcinogenic or as capable of causing fibrosis.

**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Based on classification principles, the classification criteria are not met.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.

**Chronic Health Effects:** No information available

**Existing Conditions Aggravated by Exposure:**

No information available

Hay fever, asthma or bronchitis.

## 12 . ECOLOGICAL INFORMATION

**Ecotoxicity:** No information available

**Aquatic toxicity:** No information available

**Persistence and Degradability:** No information available

**Bioaccumulative Potential:** No information available

**Mobility in Soil:** No information available

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## 13 . DISPOSAL CONSIDERATIONS

**Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.

**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

## 14 . TRANSPORT INFORMATION

**UN Number** Not applicable

**ADG, IMDG, IATA** Void

**Proper Shipping Name** Not applicable

**ADG, IMDG, IATA** Void

**Dangerous Goods Class** Not applicable

**ADG Class:** Void

**Packing Group:** Not applicable

**ADG, IMDG, IATA** Void

**Marine pollutant:** No

## 15 . REGULATORY INFORMATION

**Australian Inventory of Chemical Substances:**

25104-55-6 Urea, polymer with formaldehyde and phenol

8012-95-1 Paraffin oils

## 16 . OTHER INFORMATION

**Creation Date:** 27.09.2013

**Prepared by:** MSDS.COM.AU Pty Ltd

[www.msds.com.au](http://www.msds.com.au)

**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard

**Disclaimer**

This MSDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

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