

# Safety Data Sheet

according to WHS Regulations

Printing date 10.09.2018

Revision: 10.09.2018

## 1 Identification

**Product Name:** THERM O LAG BIO SOLUBLE ROCKWOOL PRODUCTS

**Other Means of Identification:**

**Other Name:** Mineral wool, stone wool, slag wool

**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

19-21 Bromley Road

Emu Plains NSW 2750

**Phone Number:** 02 4735 5699

**Emergency telephone number:** 0417 230 030

## 2 Hazard(s) Identification

**Hazardous Nature:**

Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

The product is not classified, according to the Globally Harmonised System (GHS).

**Signal Word** None

**Hazard Statements** None

**Precautionary Statements** None

## 3 Composition and Information on Ingredients

**Chemical Characterization: Mixtures**

**Description:** No reportable hazardous substances or complex substances.

**Hazardous Components:** None

**Additional information:**

The product is a green / yellow / brown fibrous mat supplied in different shapes and sizes.

This product contains amorphous ( non-crystalline) and bio-soluble rockwool fibre made of 60-70% fibres and 30-40% 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.

Rockwool 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.

## 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, remove contaminated clothing and flush off affected areas with water. Seek medical attention if symptoms persist.

**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 if symptoms persist.

(Contd. on page 2)

# Safety Data Sheet

## according to WHS Regulations

Printing date 10.09.2018

Revision: 10.09.2018

**Product Name: THERM O LAG BIO SOLUBLE ROCKWOOL PRODUCTS**

(Contd. of page 1)

**Ingestion:**

If swallowed, do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention if symptoms persist.

**Symptoms Caused by Exposure:**

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

Skin Contact: May cause irritation or rash.

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

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

### 5 Fire Fighting Measures

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

**Specific Hazards Arising from the Chemical:**

This product is non flammable and will not burn or decompose in a fire. Packaging may be combustible. Product close to fire should be removed only if safe to do so.

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

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

### 6 Accidental Release Measures

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

Wear suitable protective equipment. 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:**

Spill 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. 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 rockwool 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.

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 the use of Class 1 respirators during the first heat-up cycle is 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 rockwool fibre 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. Protect from prolonged exposure to direct sunlight. Keep away from acids, bases or organic solvents.

(Contd. on page 3)

# Safety Data Sheet

## according to WHS Regulations

Printing date 10.09.2018

Revision: 10.09.2018

**Product Name: THERM O LAG BIO SOLUBLE ROCKWOOL PRODUCTS**

(Contd. of page 2)

### 8 Exposure Controls and Personal Protection

**Exposure Standards:**

Nuisance dust:

TWA - 10 mg/m<sup>3</sup> (total dust)TWA - 2 mg/m<sup>3</sup> (inspirable dust)**CAS: 8012-95-1 Paraffin oils**WES TWA: 5 mg/m<sup>3</sup>**Engineering Controls:**

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

**Respiratory Protection:**

In confined or poorly ventilated places the use of Class 1 respirators during the first heat-up cycle is recommended. See Australian Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

Leather/pigskin, neoprene or nitrile gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting hand protection, the product should comply with relevant performance criteria. For example, gloves should meet a suitable level of abrasion resistance to provide protection against hazards of a workplace.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

**Eye and Face Protection:**

Eye and face protectors for protection against dust. See Australian/New Zealand Standard AS/NZS 1337 for more information.

### 9 Physical and Chemical Properties

**Appearance:**

<b>Form:</b>	Fibrous mat / blanket
<b>Colour:</b>	Green / yellow / brown
<b>Odour:</b>	Odourless or faint amine odour
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	Not applicable.
<b>Melting point/freezing point:</b>	>1000 °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

**Explosion Limits:**

<b>Lower:</b>	Not applicable
<b>Upper:</b>	Not applicable

**Vapour Pressure:** Not applicable.

**Density:**

**Relative Density:** No information available

**Vapour Density:** Not applicable.

**Evaporation Rate:** Not applicable

**Solubility in Water:** Insoluble

**Partition Coefficient (n-octanol/water):** No information available

(Contd. on page 4)

# Safety Data Sheet

according to WHS Regulations

Printing date 10.09.2018

Revision: 10.09.2018

**Product Name: THERM O LAG BIO SOLUBLE ROCKWOOL PRODUCTS**

(Contd. of page 3)

**Viscosity:** Not applicable

## 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:** Prolonged exposure to direct sunlight.**Incompatible Materials:** Acids, bases or organic solvents may cause degradation of resin binder.**Hazardous Decomposition Products:** No hazardous decomposition products known.

## 11 Toxicological Information

**Toxicity:****LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:****CAS: 8012-95-1 Paraffin oils**Oral LD<sub>50</sub> 5,000 mg/kg (rat)**Acute Health Effects****Inhalation:** Dust may cause irritation or soreness of throat and nose.**Skin:** May cause irritation or rash.**Eye:** May cause temporary irritation, watering and redness.**Ingestion:** Ingestion is unlikely. May result in temporary irritation 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:** Based on classification principles, the classification criteria are not met.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.**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:**

Respiratory conditions such as hay fever, asthma or bronchitis may be aggravated by exposure.

**Additional toxicological information:**

Rockwool 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 and are not considered carcinogenic or capable of causing fibrosis.

(Contd. on page 5)

# Safety Data Sheet

according to WHS Regulations

Printing date 10.09.2018

Revision: 10.09.2018

**Product Name: THERM O LAG BIO SOLUBLE ROCKWOOL PRODUCTS**

(Contd. of page 4)

## 12 Ecological Information

**Ecotoxicity:****Aquatic toxicity:****CAS: 8012-95-1 Paraffin oils**LC<sub>50</sub>/96 h | 100 mg/l (fish)**Persistence and Degradability:** No further relevant information available.**Bioaccumulative Potential:** No further relevant information available.**Mobility in Soil:** No further relevant information available.**Other adverse effects:** No further relevant information available.

## 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 regulated**Proper Shipping Name** Not regulated**Dangerous Goods Class** Not regulated**Packing Group:** Not regulated

## 15 Regulatory Information

**Australian Inventory of Chemical Substances:**

CAS: 25104-55-6 | Urea, polymer with formaldehyde and phenol

CAS: 8012-95-1 | Paraffin oils

**Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:**

Not Scheduled.

## 16 Other Information

**Date of Preparation or Last Revision:** 10.09.2018**Prepared by:** MSDS.COM.AU Pty Ltd

www.msds.com.au

**Abbreviations and acronyms:**

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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

LC<sub>50</sub>: Lethal concentration, 50 percentLD<sub>50</sub>: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

**Disclaimer**

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - February 2016"

The information contained in this material safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. FM Insulation Supplies makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or

(Contd. on page 6)

# Safety Data Sheet

according to WHS Regulations

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Revision: 10.09.2018

**Product Name: THERM O LAG BIO SOLUBLE ROCKWOOL PRODUCTS**

(Contd. of page 5)

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