

GLASSWOOL INSULATION MATERIAL SAFETY DATA SHEET



SECTION 1: IDENTIFICATION OF MATERIAL AND SUPPLIER

PRODUCT NAME: Bio Soluble Glasswool Insulation Products

TRADE NAMES: Acoustic Ceiling Panels, HD Series Blanket, Pre Engineered Metal Building Insulation, Faced Duct Wrap, Duct Liner, Duct Liner Board, Heavy Density Pipe Insulation, Pipe Wrap, Mechanical Board, TIW Wool, Quietliner.

RECOMMENDED USE: Thermal and acoustic insulation including energy conservation. Used in homes, public and commercial buildings, warehouses, industrial and petro-chemical plants, motor vehicles, public transport and power stations.

SUPPLIER: Arabian Fibreglass Insulation Company
Utilizing specifications of Owens Corning Fibreglass Corporation USA

ADDRESS: Head Office and Factory
PO Box 1289, Dammam 3143, Kingdom of Saudi Arabia

TELEPHONE: 0011 9663 847 2901
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EMERGENCY No: 000 (Aust only) Fire Brigade / Police

APPLICABLE: Australia

POISONS INFORMATION: 13 11 26 (Aust only)

IMPORTANT NOTICE: This Material Safety Data Sheet (MSDS) is issued by the supplier in accordance with the Code and guidelines from the Australian Safety and Compensation Council (ASCC, formerly National Occupational Health and Safety Commission – NOHSC). The information in it must not be altered, deleted or added to. The Supplier will not accept any responsibility for any changes made to its MSDS by any other person or organization. The supplier will issue a new MSDS when there is a change in product specifications and / or ASCC standards, guidelines or regulations.

SECTION 2: HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE: Classified as Non Hazardous according to the criteria of the Australian Safety and Compensation Council ASCC (formerly NOHSC). Approved Criteria For Classifying Hazardous Substances (NOHSC: 1008) 3rd Edition.

Bio-Soluble Glasswool Wool Insulation is classified as Non-Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

| CHEMICAL NAME | PROPORTION | CAS NUMBER |
|---|------------|------------|
| Mineral Glasswool Fibre | >85% | |
| (Amorphous, Non-Crystalline) (Bio-soluble Note Q Applicable) Heat Cured Resin | <15% | 25104-556 |
| Mineral Oil (Solvent Refined) | <2% | |

Other properties: The resin and solvent refined mineral oils bind the fibres and particles together and minimize the release of dusts. The heat cured resin is stable and will remain intact for the life of the product under normal atmospheric conditions.

SECTION 4: FIRST AID MEASURES

Swallowed: Rinse lips and mouth with water.

Eyes: Flush with clean water. If discomfort persists, seek medical advice.

Skin: Flush off with water, preferably running. If itch or discomfort persists, seek medical advice.

Advice to doctor: Any symptoms and signs of ill-health are likely to be due to other causes. Can be slightly itchy on prolonged contact with skin. Does not produce any acute or chronic health effects. Treatment should be directed toward cleansing the skin and symptomatic treatment as necessary.

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SECTION 5: FIRE FIGHTING MEASURES

Flammability: Non flammable, will not burn.

Suitable Extinguishing Media: As needed for surrounding fire conditions. Any extinguishing media may be used as required. Waterfog may be used to cool intact containers and nearby storage areas.

Hazards From Combustions Products: Glasswool Insulation is non-flammable, but the plastic wrapping, resin binder and some facings may decompose, smolder or burn in a fire or when heated above 300°C. If product is present in a fire, toxic gases or smoke may be evolved depending on surrounding fire conditions.

Fire Fighting Procedures: As needed for surrounding fire conditions. If required, evacuate area and contact emergency services; remain upwind and notify those downwind of fire hazard; and wear protective equipment including Self-Contained Breathing Apparatus (SCBA).

HAZCHEM Code: None allocated.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Containment Procedure: If product is torn or loose, cover or reseal to minimize fibre release. Reuse where possible or place in a sealable plastic bag for disposal according to local authority guidelines.

Clean Up Procedure: Personnel directly involved in clean-up of loose material should wear personal protective equipment as described in Section 8. Clean area so as to avoid dispersion of loose material or fibres using wet methods or vacuum cleaner.

SECTION 7: HANDLING AND STORAGE

Handling: These products are safe in use. Once installed, the product does not release dust or fibres. Handling, installing or removing the product may result in some dust and airborne fibre.

Minimize eye or skin contact and inhalation during handling, installation and removal (see Section 8). Observe good personal hygiene, including washing hands before eating. Remove personal protective equipment before entering eating areas.

Storage: Store in sealed container in cool, dry area, removed from foodstuffs. Ensure packages are adequately labeled, protected from physical damage, and sealed when not in use. Avoid packaging being stored under UV light (direct sunlight) for long periods.

Incompatibilities: None

SECTION 8: ESPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|---|---|
| Exposure Standards: | National Occupational Exposure Standard (NES) Australian Safety and Compensation Council ASCC (formerly NOHSC): None allocated for this product, but for airborne respirable fibres 0.5f/ml time-weighted average (TWA) standard is recommended and a standard of 2.0 mg/cubic metre time-weighted average (TWA) for non-respirable fibres (inspirable dusts). ASCC standard provide that all exposures should be kept as low as practicable. Total dust (of any type, or particle size): 10mg/m ³ TWA. |
| Engineering Controls, Ventilation: | During most applications and installation of this product, no special ventilation will be required. However if dusty, or in poorly ventilated areas, or during the first heat-up cycle in high-temperature installations, local exhaust ventilation should be considered. Work practices should aim to minimize the release of, and exposure to, fibres and/or dust. 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. Work areas should be cleaned regularly and vacuuming or wet sweeping is recommended. |
| Personal Protection: Skin Protection: | Direct skin contact can be minimized by wearing long sleeved shirts and long trousers, a cap or hat, and Standard duty gloves conforming to Australian Standard AS 2161. Work clothes should be washed Regularly and separately from other clothes. |
| Eye Protection: | When handling Glasswool Insulation, particularly handling it overhead or in enclosed or poorly ventilated areas such as ceiling spaces or risers, eye contact with dust or fibre can be avoided by wearing ventilated non-fogging dust resistant goggles conforming to Australian and New Zealand Standards AS/NZS 1336. |
| Respiratory Protection: | When handling Glasswool Insulation, particularly during work in enclosed or poorly ventilated areas, an approved particulate respirator conforming to Australian and New Zealand Standards AS/NZS 1715 and 1716 is recommended. Use only respirators that bear the Australian Standards mark and are fitted and maintained |
| Personal Hygiene: | Washing of exposed skin with soap and water at the end of a shift or as required is recommended. |

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
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| Appearance: | A matt of yellow fibrous material resembling wool. It is supplied in different shapes and sizes, packaged in plastic or cardboard boxes. It may be rigid or flexible; and facings such as aluminum foil, vinyl, and synthetic tissues applied to meet specific purposes. |
| Odour: | Slight amine odour. |
| pH: | Not applicable. |
| Boiling Point: | Not applicable. |
| Melting Point: | >704°C |
| Vapor Pressure: | Not Applicable. |
| Specific Gravity (H2O = 1): | Variable. |
| Solubility in Water: | Insoluble. |
| Evaporation Rate: | Not applicable. |
| Vapor Density: | Not applicable. |
| Percent Volatiles: | Very low; <1% |
| Flash Point: | Not applicable. |
| Decomposition Temperature: | >300°C |
| Lower/Upper Explosive Limits (LEL/UEL): | Not applicable. |

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: No reported incompatibilities, however resin binders may be attacked by acidic, alkaline or solvent based substances. The cured resin is stable and will remain intact for the life of the product under normal atmospheric conditions.

Hazardous Polymerisation: None Known

Conditions to avoid: None Known

Hazardous Decomposition Products: None Known

SECTION 11: TOXOLOGICAL INFORMATION

Acute Effects: Products used in high temperature applications (above 177°C), may release gasses (CO₂, formaldehyde, amines) from the resin bonding which are irritating to the eyes, nose and throat during initial heat-up. In confined or poorly ventilated areas use air supplied respirators during the first heat-up cycle.

Swallowed: Unlikely under normal conditions of use, but would result in irritation of the lips, mouth and stomach.

Eye: Glasswool Insulation dust is a mechanical irritant, if it gets into the eyes, may cause eye discomfort resulting in watering and redness.

Skin: Handling Glasswool Insulation and its dust may irritate the skin resulting in itching and occasionally a red rash. The rash

is not allergic and usually disappears quickly.

Inhaled: The dust may cause discomfort of the nose, throat and respiratory tract, especially in those suffering from upper respiratory or chest complaints such as hay fever, asthma or bronchitis.

Chronic: There are no known long term health effects, Glasswool fibres have been shown to be bio-soluble, which means that any fibres inhaled into the lungs dissolve in body fluids and are then cleared from the lungs. Fibres would comply with the short term bio persistence test and fulfill the requirements of Australian and international authorities on bio-solubility. ASCC/NOHSC and international authorities do not classify mineral wool fibres with high bio-solubility as carcinogenic.

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SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Neither the raw materials nor the finished product contain any ozone depleting chemicals. This product is not classified as a hazardous air pollutant. Bio-Soluble Glasswool is bio-soluble and in most ecosystems it would be expected to solubilize over a period

of weeks to months. Binder-coated Glasswool is hydrophobic, therefore, no adverse environmental effects would be expected. If this product were accidentally released in the water or soil, no harm to fish or wildlife would be caused by this product.

SECTION 13: DISPOSAL CONSIDERATIONS

Place in sealed, appropriately labeled plastic bags and dispose of or in accordance with local authority guidelines. Clean area with micro equipment vacuum or wet sweep. Any waste material

should be cleaned up and disposed of in accordance with local authority guidelines. Use protective equipment as described in Section 8 when handling uncontained material.

SECTION 14: TRANSPORTATION INFORMATION

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| Transport Requirements: | Bio-Soluble Glasswool Insulation is not regulated as a Dangerous Good. No special transport Requirements are necessary. |
| UN Number: | None allocated. |
| Class: | None allocated. |
| Subsidiary Risk: | None allocated. |
| Packaging Group: | None allocated. |
| Hazchem code: | None allocated. |

SECTION 15: REGULATORY INFORMATION

Poisons Schedule: None allocated.

SECTION 16: OTHER INFORMATION

For further information on this product please contact:
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PO Box 1289, Dammam 31431, Kingdom of Saudi Arabia
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This product is distributed by:
Thermacon 88 Insulation Pty Ltd
16 Hodgson Way Kewdale WA 6105
Ph: 08 9353 6033
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Additional Information:

The following references are intended as guides to good industrial practice applicable to building and construction products.

- AS/NZS 1336 Recommended practices for Occupational eye Protection.
- AS/NZS 1715, 1716 Selection, use and maintenance of respiratory protective devices.
- AS 2161 Industrial safety gloves and mittens (excluding electrical and medical gloves).

Authorization:

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Note: Arabian Fibreglass Insulation Company reserves the right to change product specifications without prior notification. Information in this publication and otherwise supplied to users as to the subject product is based upon our general experience and is given in good faith, but because of the many particular factors which are outside of our knowledge and control and affect the use of products. No warranty is given or is to be implied with respect to either or such information or the product itself in particular the suitability of the product for any particular purpose. The purchaser should independently determine the suitability of the product for the intended application.