

FBS-1 BIO-SOLUBLE GLASS WOOL™ INSULATION

Material Safety Data Sheet (MSDS)

Fletcher
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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.
FBS-1 Bio-Soluble Glass Wool 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 labelled plastic bags and dispose of or in accordance with local authority guidelines. Clean area with micro equipped 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

Transport Requirements:	FBS-1 Bio-Soluble Glass Wool 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
Packing Group:	None allocated
Hazchem code:	None allocated

SECTION 15: REGULATORY INFORMATION

Poisons Schedule: None allocated.

SECTION 16: OTHER INFORMATION

Additional Information and reference documents
Poisons Information Centre 13 11 26 (Australia Wide)

National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)], April 2003.

National Code Of Practice For The Labelling Of Workplace Substances [NOHSC:2012(1994)], March 1994, Australian Government Publishing Service, Canberra.

Australian Standards References:

AS/NZS 1336 Recommended practices for occupational eye protection.
AS/NZS 1715 Selection, use and maintenance of respiratory protective devices.
AS/NZS 1716 Respiratory protective devices.
AS/NZS 2161 Occupational protective gloves.

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Note: Fletcher Insulation (Vic) Pty. Ltd. 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 on our general experience and is given in good faith, but because of the many particular factors which are outside our knowledge and control and affect the use of products, no warranty is given or is to be implied with respect to either 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.

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SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:
FBS-1 BIO-SOLUBLE GLASS WOOL™ INSULATION

Other Names:
Pink Batts®, Acousti-Therm™, Fat Batts™, Vapa-Chek™, Quietpipe™, Building Blanket, Acoustiscreen™, Ductboard™, General Purpose Glasswool, Noise Control Batts™, Sonomatt™, Semi Rigid Ductliner, HDEI, Heatlock™, Hi-Temp™, Semi Rigid LEI, Monocoustic™, Mould Press Wool, Sonocoustic™, Noise Stop Board™, Permastop™, RoofStop™, Rigid Glasswool, Ductflex™, Sonobatts™, Audio Panel, Flexible Ductliner.

Recommended Use:
Thermal and acoustic insulation including energy conservation. Used in homes, public and commercial buildings, warehouses, industrial and petrochemical plants, motor vehicles, ships, public transport, power stations and white goods.

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Website: www.insulation.com.au

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 organisation. 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.

FBS-1 Bio-Soluble Glass 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
Fiberised bio-soluble glass	>85%	-
Heat cured resin	<15%	25104-55-6
Mineral oil (solvent refined)	<2%	-

Other properties: The fibres and particles are amorphous (non-crystalline). The resin and solvent refined mineral oils bind the fibres and particles together and minimise 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 the lips and mouth with water, give water to drink, and seek medical attention.
Eye: Flush with copious amounts of water. If symptoms persist seek medical attention.
Skin: Sluice with water and, if itching persists, seek medical attention.
Inhaled: Remove to fresh air. If symptoms persist seek medical attention.

Notes to Doctor: This product can be slightly irritant to the skin, but is not known to produce any chronic health effects. Treatment should be directed toward the source of irritation with symptomatic treatment as necessary. Any other symptoms and signs of ill-health are likely to be due to other causes.

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SECTION 5: FIRE FIGHTING MEASURES

Specific Hazards: Non flammable. *FBS-1 Bio-Soluble Glass Wool* Insulation is non-flammable, but the plastic wrapping, resin binder, and some facings (eg vinyl tissue) may decompose, smoulder or burn in a fire or when heated above 300°C. *FBS-1 Bio-Soluble Glass Wool* Insulation has a 4 zero fire rating when subjected to early fire hazard tests in accordance with the Australian Standard - AS1530 Part 3-1999.

Extinguishing Media: Use waterfog to cool intact containers and nearby storage areas.

Fire Fighting Procedures: If product is present in a fire, toxic gases may be evolved. Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire.

Hazardous Decomposition Products: Resin binders and facings may decompose, smoulder or burn in fire situation or if heated over 300°C.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spills: If product is torn or loose, reseal and minimise fibre release. Personnel directly involved in clean up should wear personal protective equipment as described in Section 8 to prevent skin and eye irritation. Clean area so as to avoid

dispersion of any irritant fibres using wet sweep methods or approved micro-filter equipped vacuum cleaner. Reuse where possible or place in a sealable plastic bag for disposal according to local authority guidelines.

SECTION 7: HANDLING & STORAGE

Handling: Handling, installing or removing the product may result in some dust and airborne fibre; minimise eye or skin contact and inhalation during handling, installation and removal. Observe good personal hygiene including washing hands before eating. Remove protective equipment before entering eating areas. *FBS-1 Bio-Soluble Glass Wool* Insulation, once installed, does not release dust or fibres, and does not cause any health effects.

Storage: Store in sealed container in cool, dry area, removed from foodstuffs. Ensure packages are adequately labelled, 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: EXPOSURE 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 standards provide that all exposures should be kept as low as practicable. Total dust (of any type, or particle size): 10 mg/m3 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 minimise 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 minimised 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 <i>FBS-1 Bio-Soluble Glass Wool</i> 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 <i>FBS-1 Bio-Soluble Glass Wool</i> 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 correctly, and kept in clean storage when not in use.
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

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 aluminium 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
Vapour Pressure:	Not applicable
Specific Gravity (H2O = 1):	Variable
Solubility in Water:	Insoluble
Evaporation Rate:	Not applicable
Vapour 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: TOXICOLOGICAL INFORMATION

Acute Effects: Products used in high temperature applications (above 177°C), may release gases (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.

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.

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

Chronic: There are no known long term health effects. *FBS-1 Bio-Soluble Glass Wool* 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.

Eye: *FBS-1 Bio-Soluble Glass Wool* Insulation dust is a mechanical irritant, if it gets into the eyes may cause eye discomfort resulting in watering and redness.

Skin: Handling *FBS-1 Bio-Soluble Glass Wool* Insulation and its dust may irritate the skin resulting in itching and occasionally a red rash. The rash is not allergic and usually disappears