

**MATERIAL SAFETY DATA SHEET  
GLASS WOOL INSULATION**



Ref: PGF/MSDS 6543 A

**IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

Product Name: GLASSWOOL INSULATION

Other Names: Polyglass Glasswool Batts,  
Polyglass Glasswool Blankets(plain or faced),  
Poly Vapour Shield,  
Polyglass Semi Rigid Board (plain and faced with Fabric, Toughskin, FSK, WGF, BGT)  
Polyglass Classicitone Acoustic Ceiling Panel,  
Polyglass Polytone Suspended Ceiling,  
Polyglass Poly Rigid Pipe Section,  
Polyglass Flexi-Wrap,  
Polyglass Polywool Ductliner,  
Polyglass Polyduct Duct Work System.

Recommended Use: Insulation, Thermal and Acoustic Insulation, Building Applications, Appliance applications

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**HAZARDS IDENTIFICATION**

**NON-HAZARDOUS SUBSTANCE – NON-DANGEROUS GOOD**

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; but it is likely that there will also be concurrent exposure to other construction material and general dusts. Users of this product are therefore advised to consider these other exposures when handling, installing or removing Glasswool Insulation.

Products designed for high temperature applications (above 177°C/350°F), may release gases (CO<sub>2</sub>, formaldehyde, amines) irritating to the eyes, nose and throat during initial heat-up. In tightly confined or poorly ventilated areas, use air supplied respirators during the first heat-up cycle.

Inhalation of excessive amounts of dust from the product may cause temporary upper respiratory discomfort and/or congestion.

Skin itching may be a symptom experienced by some people handling Glasswool Insulation. It can be treated by gently washing affected area with soap and warm water. Some discomfort may be experienced if eyes are exposed to dust. Treat by flushing with copious amounts of water.

**COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name:	Proportion:
Fibrous glass	>85%
Heat cured resin	<15%
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.



## 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: Wash thoroughly 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 irritating 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.

## FIRE FIGHTING MEASURES

Specific Hazards: Non flammable. No fire or explosion hazard exists.

Extinguishing Media: In the event of a surrounding fire, any extinguishing media may be used, eg carbon dioxide (CO<sub>2</sub>), water, water fog, or dry chemical. Use water fog to cool intact containers and nearby storage areas.

Hazardous Decomposition Products: Resin binders and facings may decompose, smolder or burn in fire situation or if heated over 300 degrees Celsius.

## ACCIDENTAL RELEASE MEASURES

If product is torn or loose, reseal and minimize 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.

## HANDLING & STORAGE

Handling: 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. Observe good personal hygiene including washing hands before eating. Remove protective equipment before entering eating areas. 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.

## EXPOSURE CONTROLS / PERSONAL PROTECTION

During most applications and installation of this product, no special ventilation will be required. However, if dusty, or in confined spaces, local exhaust ventilation should be considered. For continuous manufacturing situations using this product the need for ventilation should be evaluated and, where high fibre levels are likely, ventilation systems should be considered. Work practices should aim to minimise the release of, and exposure to, fibres and/or dust.

Hand tools that generate the least amount of dust and fibres are recommended. 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.

Eye Protection: When handling glass wool 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 dust resistant goggles conforming to Australian and New Zealand Standards AS/NZS 1336.

**Skin Protection:** Loose comfortable clothing should be worn. Direct skin contact can be minimised by wearing normal work clothing, 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.

**Respiratory Protection:** When handling glass wool Insulation, particularly during work in enclosed or poorly ventilated areas, an approved Class 1 particulate respirator conforming to Australian and New Zealand Standards AS/NZS 1715 and 1716 is recommended.

**Personal Hygiene:** Washing of exposed skin with soap and water at the end of a shift or as required is recommended.

## 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. Facings such as aluminium foil, vinyl, and synthetic tissues are applied to meet specific purposes.
Odour:	Usually odourless but may have faint amine odour.
pH:	Not applicable
Boiling Point:	Not applicable
Melting Point:	> 704°C
Vapour pressure:	Not applicable
Specific gravity (H <sub>2</sub> O = 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

## 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

## TOXICOLOGICAL INFORMATION

**Acute Effects:** The dust and fibres from this product are mechanical irritants and may cause temporary itching and discomfort to exposed areas such as eyes, skin, and upper respiratory passages.

**Chronic Effects:** Laboratory studies have found that this product is soluble in body fluids (biosoluble), and has not caused fibrosis, cancer or any adverse health effects following any route of administration.

Bio-soluble means that any fibres inhaled into the lungs dissolve in body fluids and are then cleared from the lungs. ASCC/NOHSC and international authorities do not classify glass wool fibres with high bio-solubility as carcinogenic.



## 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.

## DISPOSAL CONSIDERATIONS

This product is not regulated as a hazardous waste by environmental authorities. Local authority guidelines should be followed in the disposal of waste products and dust.

## TRANSPORTATION INFORMATION

Transport Requirements:	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

## OTHER INFORMATION

Classification: Classified as Non Hazardous according to ASCC/NOHSC criteria.  
Classified as Non Dangerous Goods according to criteria of the Australian Dangerous Goods Code.  
Poisons Schedule: None allocated.

This MSDS was correct at the time it was prepared. 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.

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