

Material Safety Datasheet

TemperTherm Glasswool Insulation



BRANZ APPRAISAL

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MANUFACTURER

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NEW ZEALAND IMPORTER & DISTRIBUTOR

TemperTherm

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MATERIAL IDENTIFICATION & USE(S)

Description: Phenolic resin bonded fibrous glass wool insulation

Common Name: Fiber Glass / Glasswool Insulation

Use(s): Thermal and acoustic insulation for use in timber or metal framed walls, ceilings, skillion roofs, and mid-floor applications in both residential and commercial construction. Glasswool insulation is available in a range of widths, thicknesses, densities and performance options and is available in blanket and segment forms.

Refer to TemperTherm website and Product Data Sheets for a full list of products and specifications. The most up to date versions of product and technical specifications will be available from our brand websites.

INGREDIENTS AND EXPOSURE LIMIT

INGREDIENT NAME	CAS NUMBER	%	EXPOSURE LIMITS
Fibrous Glass Wool	65997-17-3	83-97%	TLV: 1f/cc** PEL: 15 mg/m ³ Total Nuisance Particulate
Urea Extended Phenolic Resin (cured)	25104-55-6	3-17%	PEL: N/A TLV: N/A

Any remaining components of this product are non-hazardous or are in a small enough quantity as to not meet regulatory thresholds for disclosure. These components contain no substances or impurities, which would influence the classification of this product.

**Based on prudence and not significance risk, ACGIH and Taita recommends a maximum exposure level of 1 fiber/cc (8 hour TWA, NIOSH 7400 B Method) for fibrous glass

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PHYSICAL DATA

Appearance and Odor:	Yellow fibrous product, no appreciable odour.
Melting Point:	N/A
Evaporation Rate:	N/A
Vapor Pressure:	N/A
Vapor Density:	N/A
Pure/Mixture:	Mixture
Water Solubility:	Insoluble
Physical State:	Solid
Specific Gravity:	Variable

FIRE AND EXPLOSION HAZARD DATA

Flash Point:	N/A
Non-Flammable:	Glasswool insulation is commonly considered non-flammable. Glasswool insulation is not explosive.
Auto Ignition Temp:	Not Determined
Extinguishing Method:	Use water, foam, dry chemicals, or carbon dioxide.
Fire Fighting Procedures:	Wear self-contained breathing apparatus, and protective clothing. Dense smoke may limited visibility in enclosed areas.
Combustion Products:	CO, CO ₂ , Hydrocarbon particulate.

HAZARDS IDENTIFICATION

Hazard Classification: Non Hazardous.

Hazchem Code: None allocated

Hazard Summary: Glasswool insulation may produce respirable dust which may cause irritation to the skin, eyes, and respiratory tract.

Precautionary Statement: Avoid inhaling dust.

PPE

Loose fitting work clothes which cover the arms, neck, and legs are recommended for comfort. Work gloves are also recommended.

Use a half-face P1, P2 or N95 type respirators as appropriate. Also refer to Worksafe list of approved Respiratory Protection Equipment. If dust is generated in enclosed or poorly-ventilated areas, an approved particulate respirator conforming to Australian and New Zealand Standards AS/NZS 1715 and AS/NZS 1716 is recommended.

Ventilated, non-fogging goggles are also recommended particularly when handling glasswool overhead.

Wash regularly and launder work clothes separately from other clothes.

If sufficient natural ventilation is not available, use mechanical ventilation to assure exposures to airborne dust remain below the recommended levels.

ENGINEERING CONTROLS

Provide good ventilation, either mechanical or natural. Minimise dust generation by using hand tools.

Power tools and machinery (e.g. saws, sanders, drills) should be fitted with dust extraction equipment. An industrial micro-filter vacuum cleaner should be used to clean work areas.

EXPOSURE, FIRST AID & PERSONAL PROTECTION

The New Zealand Workplace Exposure Standard for glass wool insulation is 0.3 respirable fibre per mL and 2 mg/m³ inspirable dust (refer Workplace Exposure Standards and Biological Exposure Indices, Edition 12-1 November 2020, Department of Labour).

It is anticipated that airborne respirable fibre levels will rarely exceed 0.2 f/mL in most user applications.

The International Agency for Research on Cancer (IARC) has classified glass wool insulation as possibly carcinogenic to humans (Group 2B).

Acute Health Effects:	• Mechanical irritation of the skin, eyes, and upper respiratory system. • Eye Irritant: Contact may result in irritation, lacrimation, pain, and redness. • Inhalation: Irritation of the nose and throat; especially in people with pre-existing upper respiratory or chest complaints. • Skin Irritant: Irritation to the skin causing itching and sometimes a red rash may occur. The itch or rash is usually not severe, does not last long, and can be relieved by washing with mild soap and cool water. • Ingestion: Unlikely to occur and no known health effects but would be expected to cause stomach irritation if ingested.
Medical Conditions Aggravated:	• Pre-existing upper respiratory and lung diseases may be aggravated by dust. The product is a mechanical irritant for skin, eyes, and upper respiratory system.
Effects of Overexposure:	• Itching and irritation of the upper respiratory tract.
Target Organs:	• Skin, eye, and respiratory system including the lungs.
Irritancy:	• Product can be a mechanical irritant.
Sensitization:	• There have been reports of reactions among persons with extreme chemical hyper sensitivity.

FIRST AID

Eyes:	• Flush eyes with flowing water for at least 15 minutes. If irritation persists, seek medical advice.
Skin:	• Frequent rinsing of skin surface with water and mild soap to remove accumulated fibers and minimize irritation. If irritation persists, seek medical advice. Treat as a mechanical irritant.
Inhalation:	• Remove to fresh air. Drink water to clear throat and blow nose to evacuate fibers.
Ingestion:	• Ingestion of this product is unlikely. Give water to drink and seek medical advice.

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REACTIVITY DATA

Stability:	Material is stable.
Hazardous Polymerization:	Will not happen.
Incompatible Chemicals:	Hydrofluoric acid will dissolve glass.
Conditions to Avoid:	None in designed use.
Decomposition Products:	Facing and binder burns or decomposes in a fire. Decomposition products are carbon monoxide, carbon dioxide, carbon particulate and traces of hydrogen cyanide from pyrolysis of the resin.

ACCIDENTAL RELEASE MEASURES

Special Handling:	Keep material dry and minimize the generation of dust.
Spill or Leak Procedures:	Pick up and discard large pieces. Personnel directly involved in clean-up of loose material should wear personal protective equipment (PPE). Clean area so as to avoid dispersion of loose material, fibres, and dust using wet sweep method or micro-filter vacuum cleaner.
Waste Disposal:	May be disposed in approved landfill. Comply with local regulations and in accordance with Resource Management Act.

TRANSPORTATION, STORAGE & HANDLING

Shipping Name:	This product is not classified as a hazardous material for transportation.
Storage:	Insulation must be stored under cover and in dry conditions. Heavy objects must not be stacked on the packs. The packs should be stored in an orientation that avoids excessive compression of the product. Glasswool Insulation is supplied in compressed packaging sleeves in order to increase freighting efficiency. Insulation must be released from the packaging and allowed to re-loft prior to installation. The time to loft will depend upon the length of time the product has been packaged and stored. Before using this product, become familiar with the safe handling procedures.
Handling:	Product Installation Instructions are available from the brand website. Installation should be carried out by a competent person conversant with the installation of thermal and acoustic insulation to meet NZBC H1 requirements. NZS 4246 should be used as a guide for installing insulation in residential buildings.

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OTHER INFORMATION

The information given in this MSDS is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated.

Whilst the information contained in this document is based on data which, to the best of our knowledge, was accurate and reliable at time of preparation, no responsibility can be accepted by us for errors or omissions. The provision of this information should not be construed as a recommendation to use our products in violation of any patent rights or in breach of any statute or regulation. Users are advised to make their own determination as to the suitability of this information in relation to their particular purposes and specific circumstances. Since the information contained in this document may be applied under conditions beyond our control, no responsibility can be accepted by us for any loss or damage caused by any person acting or refraining from action as a result of this information.