SAFETY DATA SHEET

SDS No. FCS020

Date of issue: 09 July 2025

1. IDENTIFICATION OF PRODUCT

Alutherm - Aluminium Foil Coated Glass Wool Blanket

1.1 Use of Product

Alutherm is designed for thermal and acoustic insulation in a variety of applications, including roof, wall, and floor insulation in residential buildings, as well as insulation for offices, hotels, shopping malls, and other commercial spaces. It is also suitable for insulating pipes, ducts, boilers, and other industrial equipment.

1.2 Emergency information

NZ, Firestop Centre Ltd
657 Gret South Rd., Penrose, Auckland
+64 9 483 4000, info@firestopcentre.co.nz
www.firestopcentre.co.nz

Language: English
Opening hours: Only available during office hours

2. HAZARD IDENTIFICATION

Potential Health Effects

Eye contact: Not a normal route of exposure.
Skin contact: Prolonged skin contact with used material may produce temporary irritation in sensitive individuals.
Oral Ingestion: Not a normal route of exposure.

Inhalation:
Natural state: Not a normal route of exposure.
Used material: Proper care should be taken when working with used material to minimize generation of dust. A NIOSH/MSHA approved air-purifying respirator for particulates is generally acceptable, except that supplied air respirators are required for high airborne dust concentrations. An industrial hygienist or other qualified professional should be consulted during the respiratory selection process to assure that the respiratory protection used is appropriate under the conditions of use.
Primary route(s) of exposure: Skin contact.
Carcinogen listings: IARC has determined that there is inadequate evidence for the carcinogenicity of glass filaments in humans and experimental animals. (IARC Class –3).

3. COMPOSTION/INFORMATION ON INGREDIENTS

CHEMICAL / COMMON NAME	C.A.S. NUMBER	% BY WEIGHT (opt)
Fiberglass (SiO2)	65997-17-3	96
Al	7429-90-5	3
Other	-	1

- Sizing, lubricants, surfactants, formaldehyde, hydrocarbons and humectants Proprietary <3%

Notes: The fibres in this product are not considered hazardous. These fibres are classified “non-respirable”. The crystalline silica content is below the detectable limit.

- **PSA:** The products listed in Section-1 may be provided with an Acrylate Pressure Sensitive Adhesive (PSA) applied, along with a release paper. There are no known hazardous components associated with the PSA provided. There may be slight smoking and a characteristic odour if the PSA is heated to a point where decomposition occurs; however, no adverse health effects are anticipated. The components of the PSA are in compliance with the chemical notification requirements of TSCA.

4. FIRST-AID MEASURES

Emergency/First-aid Measures:

Skin: Wash with mild soap and running water. Use a washcloth to remove fibres. Do not rub or scratch irritated areas. If irritation persists, seek medical attention.
Eye: In case of contact with airborne fibres released from used material, immediately wash eyes with large amounts of water for 15 minutes. If irritation persists, seek medical attention.
Inhalation: In case of overexposure to fibres released from used material, immediately remove person from contaminated area to fresh air. Get medical attention if necessary.
Ingestion: If ingested, seek medical attention. If gastrointestinal irritation or other symptoms such as nausea, vomiting, abdominal pain or diarrhea is experienced, get medical attention.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Will not burn. Use extinguishing agent suitable for type of surrounding area.
Special fire fighting instructions: N/A

6. ACCIDENTAL RELEASE MEASURES

Action to take for spills/leaks: N/A
Notification information: There are no specific reporting requirements for release of this material as supplied under CERCLA (40 CFR 302) or SARA (40 CFR 355). There may be specific reporting requirements of the release of this material at the local, regional, or state level.

7. HANDLING AND STORAGE

Handling and storage procedures: No special handling and storage procedures required.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Control/Work Practices:

Ventilation: Control airborne concentrations of dust and fibres below the exposure guidelines specified by OSHA or other local, state, and federal regulations.

Personal Protective Equipment/Protection Measures:

Respiratory protection: Some applications of these products may not require respiratory protection. However, if airborne fibre concentrations exceed the OSHA permissible limits or if irritation occurs, a properly fitted NIOSH/MSHA approved disposable dust respirator such as the 3M model 8210 (formerly 8710) or model 9900(in high humidity environments) or equivalent should be used.
Use respiratory protection in accordance with your company's respiratory protection program, local regulations and OSHA regulations under CFR 1910.134.
An industrial hygienist or other qualified professional should be consulted during the respiratory selection process to assure that the respiratory protection used is appropriate under the conditions of use. A respiratory program that meets OSHA's 29 CFR 1910.34 requirements must be followed whenever workplace conditions warranty a respirator's use.
Protective clothing: Protective clothing is not normally necessary.
Eye protection: Eye protection is not normally necessary.

Exposure Guidelines:

Ingredient

- Amorphous fiberglass:
  - OSHA PEL: 15mg/m3 (total dust), 5mg/m3 (respiratory fraction)
  - ACGIH TLV: 10 mg/m3 (nuisance dust)
  -
- Polymer treatment:
  - OSHA PEL/ACGIH TLV NE

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid
Colour and odour	Faint yellow or light brown coloured fibrous blanket. No odour
pH	N/A
Melting point	> 1440ºF (782ºC)
Boiling point	N/A
Flashing point	N/A
Evaporative rate (ethyl ether = 1)	N/A
Flammability limits	N/A
Lower explosive limit	ND
Upper explosive limit	ND
Vapour pressure (mmHg @ 20°C)	N/A
% Solubility in water	N/A
Specific gravity	0.032
Auto ignition temperature	N/A
Viscosity	N/A
% Volatile by volume	N/A

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use.
Incompatibility: Fluorine, oxygen difluoride, chlorine trifluoride, and alkalis.
Hazardous decomposition products: Thermal decomposition may be hazardous and may include carbon monoxide, carbon dioxide, and oxides of nitrogen.
Hazardous polymerization: N/A

11. TOXICOLOGICAL INFORMATION

Persons with pre-existing skin and respiratory disorders may be more susceptible to the effects from airborne fibres released from used material.

12. ECOLOGICAL INFORMATION

ND

13. DISPOSAL CONSIDERATIONS

Waste disposal method: The transportation, storage, treatment and disposal of this waste material must be conducted In compliance with all applicable federal, state and local regulations.

14. TRANSPORT INFORMATION

UN/NA code: N/A

Proper shipping name: N/A

Hazard class: N/A

Dot Information: Not Regulated

Labels required: N/A

Bill of landing description: Product name.

15. REGULATORY INFORMATION

All components of this product are listed on the TSCA inventory.
All components of this product are listed on the Canadian DSL inventory.
Canadian WHMIS: Other toxic effects category applies to this product.

Sara Title III Information:
This product contains aluminium oxide (in excess of the applicable de minimis concentration) but as a manufactured article that does not release aluminium oxide under normal conditions of use. It is not subject to the annual toxic chemical release reporting requirements of SARA Section 313 (40 CFR 372).

16. OTHER INFORMATION

Product that has been in service at elevated temperatures (greater than 1380°F) may undergo partial transformation to cristobalite, a form of crystalline silica, which, if inhaled in sufficient quantity, can cause severe respiratory disease (“Pneumoconiosis”). The amount of cristobalite present will depend upon the temperature and length of service.

The OSHA permissible limit for cristobalite is 0.05 mg/m3 as the respirable fraction of particulate matter. The ACGIH threshold limit value (TLV) for respirable quantities of cristobalite is 0.05 mg/m3. HMIS and NFPA Hazard Rating.