

INFORMATION SHEET

Nanofelt aerogel insulation is not a substance or mixture but a product.

Following the Regulation (EC) 1907/2006 there is no requirement for a Safety Data Sheet (SDS). Nanofelt products do not contain substances meeting the Article 57 and identified in accordance with Article 59 of Regulation (EC) No 1907/2006.

New Zealand Company S.r.l. therefore provides its own "Information Sheet" and not a Safety Data Sheet (SDS). This Information Sheet is available to employers and it is used firstly as a source of information about any possible danger including environmental risks, and secondly to inform about how to correctly manage the tools

The information contained will therefore enable the employer to :

- a) draw up an active programme of measures aimed at protecting the worker, including training, specific to each workplace;
- (b) take into account any measures that may be necessary for the protection of the environment.

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

1.1 IDENTIFICATION OF THE PRODUCT

Product type: High-density needle punched glass fibre and silicon aerogel. Synonyms: NANOFELT

1.2 INFORMATION ABOUT THE PRODUCT AND ITS NOT RECOMMENDED USE

Product use: High performance thermal insulation

Uses advised against: Not known

1.3 INFORMATION ABOUT THE DEALER

New Zealand Company Srl
via Emilia Romagna , 38
35020 Saonara (PD)

1.4. EMERGENCY CONTACTS

New Zealand Company S.r.l
Telephon: (+39) 049 2328794
Website: <https://www.isolcore.uk/>
Mail: info@isolcore.com
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2. COMPOSITION/INGREDIENT INFORMATION

Substance	CAS	EINECS	Weight %	Classification according to CLP/GHS (1272/2008)
Synthetic Amorphous Silica	7631-86-9	231-545-4	34-35%	not dangerous
Modifying agent	1344-28-1	215-691-6	3%	not dangerous
CFGF- Glass fiber (fibra de vidrio)	Not applicable	Not applicable	62-63%	not dangerous

3. IDENTIFICATION OF DANGERS

3.1. CLASSIFICATION OF CONSTITUENT SUBSTANCES

Classification according to CLP/GHS (1272/2008):

Health hazards	Physical Hazards	Environmental Hazards
not dangerous	not dangerous	not dangerous

3.2. CARCINOGENICITY

Compound	ACGIH	IARC
Synthetic Amorphous Silica (silice amorfa sintética)	-	-
Aluminum oxide (óxido de aluminio)	n.d.	-
CFGF -Glass fiber *(fibra de vidrio)	group A4	group 3

*Classification of FAVs according to Regulation (EC) 1272/2008 - Annex VI, as amended by Regulation (EC) 790/2009 according to CLP criteria

DANGER CATEGORY: Exempt from classification.

NOTE: "R"

3.3. LABEL ELEMENTS

Non-hazardous in accordance with Directive (EC) 1272/2008 CLP and subsequent amendments and supplements. The release of dust of an amorphous and inert nature is to be considered normal during handling, processing and application of the product.

Pictogram: None

Warning: None

Hazard statements: None

Precautionary statements: None

3.4. OTHER DANGERS

No other danger.

4. FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

Inhalation: In case of inhalation of dust, move to an open area. Drink water to clear throat and blow nose. Seek medical attention if symptoms occur.

Eyes: Avoid rubbing your eyes. Rinse eyes with running water for a few minutes. Seek medical attention if irritation persists.

Skin: Wash the skin with soap and water. Seek medical attention if irritation. Wash the clothes before reuse them.

Ingestion: First aid is generally not required. No adverse effects are not expected from accidental ingestion. Contact a doctor in case of symptoms persistent symptoms.

4.2. MAIN SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Dust can cause eye irritation. Silica aerogels are hydrophobic (they repel water) and can therefore cause momentary dryness and/or irritation of the skin, eyes and mucous membranes. Inhalation of dust during handling may cause momentary irritation of the respiratory tract. Handling may cause dryness and irritation of the skin.

4.3. INDICATIONS IN CASE IT IS NECESSARY TO CONSULT A DOCTOR OR TO SEEK SPECIAL TREATMENT

Usually immediate medical assistance is not required.

5. FIRE PREVENTION MEASURES

5.1. FIRE-EXTINGUISHING TOOLS

Carbon dioxide (CO₂), dry powder or water jet. For large fires use water jet or the fire extinguisher

Unsuitable Extinguishing Tools: None

5.2. SPECIAL DANGERS ARISING FROM THE PRODUCT

None.

5.3. GUIDELINES FOR FIREMEN

Follow the usual fire-fighting procedures to avoid inhaling the smoke and the gasses produced by the fire.

6. MEASURES IN CASE OF ACCIDENTAL RELEASE

6.1. INDIVIDUAL PRECAUTIONS

Wearing suitable protective clothing and equipment. Avoiding dispersing dust in the air during the cleaning operations. Providing sufficient ventilation. See section 8 for protective equipment.

6.2. PRECAUTIONS TO PROTECT THE ENVIRONMENT

No special measures are required. This material is not soluble in water. Notify of spills in accordance with national and local regulations.

6.3. CLEANING METHODS

Collect residues using methods that limit dust dispersion (collect or vacuum the dust) and place in appropriate containers for subsequent disposal.

7. HANDLING AND STORAGE

7.1. SAFE HANDLING PRECAUTIONS

Handling of aerogel materials can result in the release of dust into the environment. Exposure to dust should be controlled through common workplace hygiene practices workplace. Local exhaust ventilation (LEV) should be the primary method of dust control. The primary dust collection method is dry vacuuming. Remove material from packaging in the work area: this will help minimise the area of possible exposure to dust. Scraps and waste materials should be placed in bags for disposal. Avoid contact with eyes and skin. Use protective equipment as described in section 8. Wash hands with soap and water after handling the product.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep the material in its packaging until use. Store in a dry place.

7.3. SPECIFIC END USES

Industrial uses Thermal insulation Professional uses Thermal insulation

8. EXPOSURE LIMITS AND CONTROL / INDIVIDUAL PROTECTION

8.1. 8-HOUR EXPOSURE LIMITS

Exposure guidelines: There are no exposure limits identified for the substances constituents of this product.

8.2. EXPOSURE CONTROLS

Recommended monitoring procedures: Collection on filters and analysis.

Appropriate engineering controls: Use adequate room ventilation to minimise exposure. Use local exhaust ventilation (LEV) where repeated handling of the product will produce more dust.

8.3 PERSONAL PROTECTION MEASURES

Respiratory protection: The use of a suitable, approved particulate respirator is recommended if the concentration of exposure exceeds the exposure limits particulate respirator is recommended if the concentration exceeds the occupational exposure limits, or inhalation of dust is irritating. occupational exposure limits, or the inhalation of dust is irritating. During activities in which high quantities of dust are released, use authorised dust masks (according to EEC standards), at least type FP1 or better FP2.

Protection of hands and other exposed parts of the body: To avoid irritation, wear gloves, long-sleeved clothing and long work pants.

Eye protection: Safety glasses with side shields or dust goggles according to EN166 standard are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state: solid

Form: coils, panels, mats, blankets, chopped fibres, composites

Appearance: white fibrous matrix, with or without coating, with or without reinforcement

Odour: none

Odour threshold: n.d pH: not applicable

Melting/freezing point: fibre core melts at over 350°C

Boiling point: n.a Flash point: n.a Flammability (solids, gases): not flammable

Density: 180-220 Kg/m³

Solubility in water: none

Auto-ignition temperature: n.a

Combustion products: carbon monoxide, carbon dioxide, hydrogen oxide
Decomposition temperature: n.d Viscosity: n.a

Explosive properties: none

Oxidising properties: none

9.2. OTHER INFORMATION

No additional information.

10. STABILITY AND RESPONSIVENESS

10.1. REACTIVITY

Non-reactive under normal use.

10.2. CHEMICAL STABILITY

Non-reactive under normal conditions of use.

10.3. POSSIBILITY OF PROVOKING DANGEROUS REACTIONS

Unkonwn

10.4. CONDITIONS TO BE AVOIDED

Avoiding prolonged exposure to temperatures above those recommended for the use

10.5. INCOMPATIBLE MATERIALS

Unkown.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide (CO), Carbon dioxide (CO₂), Organic products of decomposition

11. TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

Possible health effects:

Inhalation: Inhalation of dust may cause transient irritation of the mucous membranes and of the upper airways.

Ingestion: Although no undesirable effects are expected, avoid ingestion.

Skin contact: Handling may cause dryness and transient skin irritation of the skin. Possible temporary irritation. Such irritation is only mechanical and temporary.

Contact with the eyes: Contact may cause irritation accompanied by erythema and tearing. Dust may cause abrasion injury by rubbing.

Chronic effects: No known chronic effects.

Sensitivity: Some allergies to endless glass fibres have been reported.

Mutagenic, teratogenic and reproductive hazards: No known risk.

Acute toxicity: Negligible.

Carcinogenicity: None of the components are listed as carcinogenic or suspected carcinogenic by EU-CLP.

12. ECOLOGICAL INFORMATION

12.1. TOXICITY

Toxicity in water: No specific product information is available. Toxicity aquatic toxicity is unlikely due to low solubility.

12.2. Persistence and degradability

Biodegradability determination methods do not apply to inorganic substances

12.3. Bioaccumulative potential

Not expected due to the chemical and physical characteristics of the substance.

12.4. Mobility in the soil

Migration not foreseen.

12.5. Results of PBT and vPvB assessment

The substances constituting the product are not considered persistent, bioaccumulative nor toxic (PBT). The substances constituting the product are not considered to be particularly persistent nor particularly liable to bioaccumulate (vPvB).

12.6. Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods: Mineral fibre residues, according to local regulations, may be considered as inert waste or normal industrial waste. As such they can be delivered to landfill sites for non-hazardous waste, D.M. 27/09/10. Dispose of in accordance with national and local regulations

European waste classification: 17 06 04 'Insulation materials other than those mentioned in entries 17 06 01 e 17 06 03

14. TRANSPORT INFORMATION

	14.1. ONU Number	14.2. ONU Shipping	14.3. Class/I of Danger	14.4. Group packagin	14.5. Hazards to the environment
US DOT		not regulated			

TDG		not regulated			
ADR/ RID UE		not regulated			
IMDR		not regulated			
IATA/ICAO		not regulated			
MEX		not regulated			

Special precautions for user: Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC

Code: Not applicable. This product is only transported in packaged form.

15. REGULATORY INFORMATION

15.1. SPECIFIC HEALTH, SAFETY AND ENVIRONMENTAL REGULATIONS AND LEGISLATION FOR THE REACH SUBSTANCE OR MIXTURE

The insulation products in the Nanofelt -Isolcore range are articles.

REACH - List of Substances of Very High Concern for Authorisation: This product does not contain Substances of Very High Concern for Authorisation (Art. 59 EC Regulation 1907/2006).

16. OTHER INFORMATION

The information contained herein is given in good faith and to the best of our knowledge at the date the document was prepared.

We inform the user of the possible risks if the product is used for purposes other than intended use.

The principle of user responsibility in accordance with national, regional or local national, regional or local legislation.

Filled in by: New Zealand Company S.R.L

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