

Safety Data Sheet

In accordance with Commission Regulation (EU) 2020 / 878

1. Identification

- 1.1 Product identifier: FIBRANgeo
Mineral Wool Insulation
- 1.2 Relevant identified uses of the product:
Thermal insulation, acoustic insulation, and fire protection in building construction applications.
- 1.3 Details of the supplier of the safety data sheet:
FIBRAN S.A.
Insulating material industry
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Fibran S.A. Technical Support Department Tel: +30 2310 682425 (Monday-Friday 08:30 – 16:00)

2. Hazards Identification

- 2.1 Classification of the substance or mixture:
In accordance to CLP Regulation (EC) No. 1272/2008 on classification, labeling and packaging of substances and mixtures, FIBRANgeo mineral wool is not classified as dangerous.
- 2.2 Label Elements:
There are no hazardous classifications associated with mineral wool fibres in respect to physical, health and environmental considerations.
- 2.3 Other hazards:
- 2.3.1 Exposure to dust may be irritating to the eyes, nose, and throat.
- 2.3.2 Acrid smoke may be generated during fire.

3. Composition – Information on Ingredients

(*) Chemical description: Article. The product consists of mineral wool fibers to which binder has been added. The binder agent during hardening process turns into a thermally stable material. In some products, silicon and/or mineral oils are added for water repellency and reduction of dust release.

Description	REACH registration number	Identification number	Content
Man-made vitreous (silicate) fibres with random orientation with alkaline and alkali earth oxides (Na ₂ O+K ₂ O+CaO+ MgO+BaO) content greater than 18% by weight and fulfilling one of the Nota Q conditions	01-2119472313-44-0034	EC number 926-099-9 EU index number 650-016-00-2	95 - 100 %
Cured organic binding material		CAS number 25104-55-6	0 - 5 %
Silicon and/or Mineral oils	-	-	0 - 0.5 %

In addition, the product may be supplied faced with various common building materials such as aluminium foil, black/white glass tissue, craft paper, bitumen etc.

4. **First – Aid Measures**

4.1 Description of first aid measures

- 4.1.1 Inhalation: If irritation occurs, remove the affected person to fresh air. Drink water and blow nose, to clear dust and fibers from throat and nose. If irritation persists, consult a physician.
- 4.1.2 Skin: if irritation occurs, do not rub or scratch. Rinse under running water and then wash with soap and water. Use a washcloth to help remove fibers. If irritation persists, consult a physician.
- 4.1.3 Eyes: If irritation occurs, flush eyes with plenty of water for at least 15 minutes. Do not rub the eyes. Consult a physician if irritation persists.
- 4.1.4 Ingestion: Ingestion of this product is unlikely to occur under normal conditions of use. If it does occur, rinse mouth with plenty of water to help remove dust and fibers, and drink plenty of water to help reduce potential gastrointestinal irritation. Do not induce vomiting unless directed to do so by a physician.

4.2 Most important symptoms and effects, both acute and delayed

- 4.2.1 Inhalation: Temporary mechanical irritation of the upper respiratory track may result from exposure to dusts and fibers in excess of applicable exposure limits.
- 4.2.2 Skin contact: Dust and fibers may cause temporary mechanical irritation (itching) or redness to the skin.
- 4.2.3 Eye contact: Dust and fibers may cause temporary mechanical irritation (itching) or redness to the eyes.
- 4.2.4 Ingestion: Ingestion of this product is unlikely to occur under normal conditions of use. However, ingestion of this product may cause gastrointestinal irritation

4.3 Indication of any immediate medical attention and special treatment needed

None required. However, if any adverse reaction or discomfort continues from any of the above exposures, then seek professional medical advice.

5. **Fire – Fighting Measures**

5.1 Extinguishing media

- 5.1.1 Suitable extinguishing media: Water, foam, carbon dioxide or dry powder
- 5.1.2 Unsuitable extinguishing media: None

5.2 Special hazards arising from the substance or mixture:

The mineral wool products are non-combustible and do not pose a fire hazard. However, packaging material may burn.

- 5.3 Advice for fire-fighters: Observe normal firefighting procedures

6. Accidental Release Measures

- 6.1 Personal precautions, protective equipment and emergency procedures: No special requirements. It is recommended for comfort that long-legged, long-sleeved clothing and gloves are worn. Safety goggles may be worn if a lot of dust has been generated.
- 6.2 Environmental precautions: None required.
- 6.3 Methods and materials for containment and cleaning up: Pick up large pieces and scoop up dusts and fibers after they have settled out of air. Spray with water before sweeping or use vacuum equipment. Place the material in an appropriate container for disposal as non-hazardous waste.
- 6.4 Reference to other sections: Recommended personal protection equipment and waste disposal considerations are covered in sections 8 and 13.

7. Handling and Storage

- 7.1 Precautions for safe handling:
- Unpack material at application site to avoid unnecessary handling of product.
 - Keep work areas clean. Avoid unnecessary handling of scrap material and debris by placing such materials in suitable containers.
 - Ensure good ventilation. High-speed cutting tools should always be provided with mechanical exhaust.
 - Avoid excessive eye and skin contact with dusts and fibers.
 - Use recommended cleanup procedures to avoid buildup of dusts and fibers in the working area.
 - Do not eat, drink or smoke in work areas.
 - Wash hands after use, rinsing under cold water before using soap. Change clothes and wash on completing work.
- 7.2 Conditions for safe storage, including any incompatibilities:
- Keep material in original packaging until it is to be used.
 - Store material to protect against adverse weather conditions including precipitation.
- 7.3 Specific end use(s):
- None required.

8. Exposure Controls – Personal Protection

- 8.1 Control parameters:
- According to 91/322 EEC and 96/94 EC directives, recommended exposure limits are 5 mg/m³ for respirable particulate and 10 mg/m³ for inert dust and particulates not otherwise regulated. Workplace exposure limits (WEL) is 5 mg/m³ and 2 fibres/ml airborne fibre limit, 8-hour time weight averages.
- 8.2 Exposure controls:
- 8.2.1 Appropriate engineering controls: None required.
- 8.2.2 Individual protection measures, such as personal protective equipment:
- (a) Eye protection
With heavy dust development or when working with product above head height, the use of safety goggles eye protection to EN 166 is advised.
- (b) Skin protection
Hand - It is recommended that gloves are worn for comfort and to avoid itching in conformity with EN 388.

Other - It is recommended for comfort that long-legged, long-sleeved work clothing is worn. Follow all applicable exposure limits. Where feasible, general dilution ventilation or local exhaust ventilation should be used as necessary to maintain exposures below applicable exposure limits. Dust collection systems should be used in cutting or machining operations.

(c) Respiratory protection

If dust level exceeds applicable exposure limits use disposable facemasks complying with standard EN149 FFP1 (such as a 3M model 9310 or equivalent).

(d) Thermal hazards

When the product is first heated, binder starts a decomposition process in the temperature range 200° - 250° C. During this period, workers in the area should use a respiratory protection, which is effective in irritating gases such as ammonia. A strong degassing of binder (temperatures exceeding 250° C) in a poor ventilated room can result in smarting of eyes and throat. In this case the use of a full mask respiratory protection is required. Even if decomposition products from burning of binder material can cause respiratory sensitisation, there are no recorded incidents of respiratory sensitisation from gases released from stone wool.

Where feasible, general dilution ventilation or local exhaust ventilation should be used as necessary to control exposure to fumes when high temperature appliances are first put into service.

The following text and pictograms are printed on packaging:

"The mechanical effect of fibres in contact with skin may cause temporary itching"



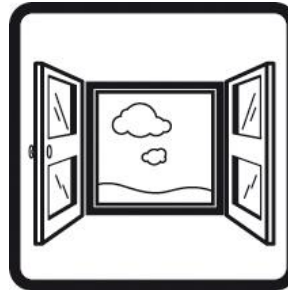
Cover exposed skin.
When working in unventilated area
Wear disposable face mask



Rinse in cold water
before washing



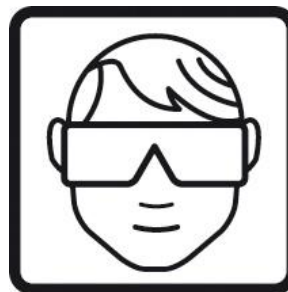
Clean area using vacuum equipment



Ventilate working area if possible



Waste should be disposed of according to local regulations



Wear goggles when working overhead

8.2.3 Environmental exposure controls: None special required

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

a)	Physical state:	solid
b)	Colour:	brown - grey
c)	Odour:	may have slight resin odor not applicable
d)	Melting point:	above 1000°C
e)	Boiling point:	not applicable
f)	Flammability:	A1 non-combustible
g)	Lower and upper explosion limit:	not applicable
h)	Flash point:	not applicable
i)	Auto-ignition temperature:	A1 non-combustible
j)	Decomposition temperature:	when the product is heated up to 200°C, for the first time(s), the binder agent (resin) starts to decompose.
k)	pH:	not applicable
l)	Kinematic viscosity:	not applicable
m)	Solubility:	insoluble in water
n)	Partition coefficient n-octanol/water:	not applicable
o)	Vapour pressure:	not applicable
p)	Density and /or relative density:	up to 200 kg/m ³
q)	Relative vapour density:	not applicable
r)	Particle characteristics:	not applicable

9.2 Other information:

Nominal diameter of fibers	3 – 6 µm
Length Weight Geometric Mean Diameter less 2 Standard Errors (LWGMD – 2 SE)	< 6 µm
Orientation of fibers	random

10. Stability and Reactivity

10.1 Reactivity:	Not reactive
10.2 Chemical stability:	Stable
10.3 Possibility of hazardous reactions:	Not reactive.
10.4 Conditions to avoid:	None specified
10.5 Incompatible materials:	None specified
10.6 Hazardous decomposition products:	When the mineral wool is heated to approximately 200°C for the first time(s), release of binder components and binder decomposition products occurs which may irritate eyes and the respiratory system.

11. Toxicological Information

11.1 Information on toxicological effects

- a) Acute Toxicity: No acute toxicity
- b) Skin corrosion / irritation: The mechanical effect of fibers in contact with skin may cause temporary mechanical irritation (itching, redness). They generally abate within a short time after the end of exposure.
- c) Serious eye damage / irritation: Coarse fibers and dust from mineral wool products may cause temporary irritation in the eyes. They generally abate within a short time after the end of exposure.

- d) Respiratory or skin sensitization: Coarse fibers and dust from mineral wool products may cause temporary mechanical irritation of the mucous membranes and in the upper respiratory track (nose and throat). They generally abate within a short time after the end of exposure.
 - e) Germ cell mutagenicity: None
 - f) Carcinogenicity: FIBRAN mineral wool fibers are in accordance with CLP Regulation (EC) No. 1272/2008 / Note Q where the classification as carcinogenic material is not applicable for the mineral wool, if the halftime of fibers longer than 20 µm is less than 40 days in the biopersistence test by intratracheal instillation.
 - g) Reproductive toxicity: None
 - h) STOT-single exposure: None
 - i) STOT-repeated exposure: None
 - j) Aspiration hazard: None
- 11.2 Information on other hazards
- 11.2.1 Endocrine disrupting properties: None
 - 11.2.2 Other information: None

12. Ecological Information

- 12.1 Toxicity: None
- 12.2 Persistence and degradability: None
- 12.3 Bioaccumulative potential: None
- 12.4 Mobility in soil: Not applicable
- 12.5 Result of PBT and vPvB Assessment: Not applicable
- 12.6 Endocrine disrupting properties: None
- 12.7 Other adverse effects: The thermal properties of FIBRAN's mineral wool relying on entrapped air and does not and never have used blowing agents with Ozone Depleting Potential or Global Warming Potential.

13. Disposal Considerations

13.1 Waste treatment methods: FIBRAN's mineral wool product is recyclable. Mineral wool is classified as non-hazardous waste. FIBRAN's insulation waste is covered by the non-hazardous entry "17 06 04 insulation materials other than those mentioned in 17 06 01 and 17 06 03" in the European Waste Catalogue, established by EC Decision 2000/532/EC (hazardous waste). Dispose of waste material according to State and Local environmental regulations.

14. Transport Information

- 14.1 UN number: Not applicable
- 14.2 UN proper shipping name: Not applicable
- 14.3 Transport hazard class (es): Not applicable
- 14.4 Packing group: Not applicable
- 14.5 Environmental hazards: Not applicable

14.6 Special precautions for user: Not applicable

14.7 Maritime transport in bulk according to IMO instruments: Not applicable

15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

The overall conclusion in accordance with the REACH Regulation (EC) 1907/2006 is that there are no hazardous classifications associated with FIBRAN's fibres in respect to physical, health and environmental considerations.

(*) FIBRANgeo mineral wool products do not contain substances on the Candidate List of Substances of Very High Concern (SVHC), the Authorization List (Annex XIV) and Restriction List (Annex XVII) of REACH Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment: Not applicable

16. Other Information

(*) FIBRANgeo mineral wool products are free from: Lead, Mercury, Cadmium, Hexavalent Chromium, Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ether (PBDE), very Persistent and very Bioaccumulative substances (vPvB), Poly- and Perfluoroalkyl substances (PFAS), Hydro-Chloro-Fluoro-Carbons (HCFCs) and Chloro-Fluoro-Carbons (CFCs).

This Safety Data Sheet (SDS) is in accordance with Commission Regulation (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

The information contained herein is based upon data considered to be accurate. However, no warranty is expressed or implied regarding the accuracy of these data. As the user's working- conditions are beyond our knowledge and control, it is always the responsibility of the user to take all the necessary measures to fulfill the demand of security matters, laid down in national rules and legislation. The information in this SDS is meant as a description of the safety requirements for our product. It is not to be considering as a guaranty of the products properties.

Changes have been made to sections with a (*) mark, compared to the previous version.