

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 REACH legislation and to EU Regulation 1272/2008 on classification, labeling and packaging of substances and mixtures, FIBRANgeo mineral wool is a mixture and 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: Mixture. 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. Silicon is added to make the product water repellent and mineral oil to reduce the dust release.

Description	Identification number	Identification number	Content
Mineral Wool - 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.	REACH registration number 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 %
Mineral oil and/or Silicon emulsion	-	-	Up to 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"



Ventilate working area if possible



Waste should be disposed of according to local regulations



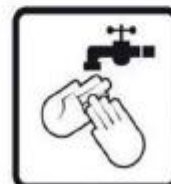
Cover exposed skin.
When working in unventilated area wear disposable face mask



Clean area using vacuum equipment



Wear goggles when working overhead



Rinse in cold water before washing

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:	generally chemically inert and 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 – 5 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

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|---------------------------------------|---|
| 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 is in accordance to the Regulation 1272/2008/EC / 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) STOP-single exposure: | None |
| i) STOP-repeated exposure: | None |
| j) Aspiration hazard: | None |

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties:	None
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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 Commission Regulation (EU) 2020/878 which amended the Annex II of the Regulation (EC) 1907/2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) is that there are no hazardous classifications associated with FIBRAN's fibres in respect to physical, health and environmental considerations.

15.2 Chemical safety assessment: Not applicable

16. **Other Information***

Hazardous Waste Regulations
List of Wastes/ European Waste Catalogue (EWC)
Landfill Regulations
Health and Safety Executive Guidance Note EH40 – Occupational Exposure Limits

This Safety Data Sheet is in accordance with Commission Regulation (EU) 2020/878 Annex II.

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.