



SAFETY DATA SHEET

FIBROSTERIL

Issued on 03/03/2021 - Rel. # 6 on 03/03/2021

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In conformity to Regulation (EU) 2020/878

SECTION 1. Identification of the substance/mixture and of the company/enterprise

1.1. Product identifier

Product name : FIBROSTERIL
Product code: refer to sales department

1.2. Relevant identified uses of the substance or mixture and uses advised against

Filtration adjuvants
Sectors of use:
Manufacture of food products[SU4]
Product category:
Technological adjuvant for limited food use

Not recommended uses
Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

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SECTION 2. Hazards identification**2.1. Classification of the substance or mixture**

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:

None

Hazard Class and Category Code(s):

Non hazardous

Hazard statement Code(s):

Non hazardous

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):

None

Hazard statement Code(s):

Non hazardous

Supplemental Hazard statement Code(s):

EUH210 - Safety data sheet available on request.

Precautionary statements:

None in particular.

Contains: perlite, cellulose and bentonite.

Food use. Also for oenological use. In accordance with current regulations on the specific matter.

2.3. Other hazards

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

Depending on the use and handling (grinding, drying, packaging), dust can be generated in the environment. The powder contains respirable crystalline silica. Inhaling dust containing crystalline silica over a long period of time can cause adverse effects on the lungs. Crystalline silica (cristobalite) is a known cause of silicosis, a progressive and in some cases very serious lung disease. Perlite contains less than 0.1% crystalline silica. Using the product as directed by the supplier minimizes the risk of exposure to respirable crystalline silica.

SECTION 3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

No dangerous substance to report.

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACH
Perlite substance for which there are Community workplace exposure limits	>= 50 < 100%			93763-70-3	618-970-4	
BENTONITE ACTIVATED substance for which there are Community workplace exposure limits	>= 5 < 10%			70131-50-9	274-324-8	01-2119485 596-21-XXX X
Cellulose substance for which there are Community workplace exposure limits	>= 5 < 10%			9004-34-6	232-674-9	

SECTION 4. First aid measures

4.1. Description of first aid measures

Inhalation:

Ventilate the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product):.

Wash thoroughly with soap and running water.

Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water for at least 10 minutes.

Ingestion:

Not dangerous. In case of malaise consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Contact with eyes may cause redness and irritation due to the mechanical effects of the powder.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5. Firefighting measures

5.1. Extinguishing media

Suggested extinguishing media:

Water spray, CO₂, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing media to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus

Safety helmet and full protective clothing.

The water spray can be used to protect the people involved in the extinction.

You may also use self-contained breathing apparatus, especially when working in confined and poorly ventilated areas.

Keep containers cool with water spray

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Move away from area around spill or leak. No smoking. Use protective gloves and clothing.

6.1.2 For emergency responders:

Avoid dust formation. Avoid inhalation of dust. Ensure adequate ventilation. Eliminate all naked flames and possible sources of ignition. Smoking is prohibited. Provide adequate ventilation. Evacuate the danger area and consult an expert if necessary.



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6.2. Environmental precautions

Contain spills
Inform the competent authorities.
Dispose of the waste material in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 Containment:
Recover the product for reuse, if possible, or for elimination.

6.3.2 Cleaning up:
After wiping up, wash with water the area and materials involved

6.3.3 Other information:
None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Do not eat or drink while working.
Avoid dust formation and inhalation.
Wash hands after use. See also the following paragraph 8.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabelled containers.
Keep containers upright and safe by avoiding the possibility of falls or collisions.
Store in a cool and dry place, away from heat sources and direct exposure to sunlight.

7.3. Specific end use(s)

Manufacture of food products:
Handle with care. Store in a clean, dry and ventilated place, away from heat sources and direct sunlight. Keep the container tightly closed, away from humidity and strong odors.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

=====

Related to contained substances:

Perlite:

PERLITE

Polvere respirabile

OSHA, PEL-TWA: 5 mg/m³

ACGIH, TLV-TWA: 3 mg/m³

Polvere totale

OSHA, PEL-TWA: 15 mg/m³



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Polvere inalabile
ACGIH, TLV-TWA: 10 mg/m³

QUARZO
Polvere respirabile
OSHA, PEL-TWA: 10/(2+%SiO₂) mg/m³
ACGIH, TLV-TWA: 0,05 mg/m³
NIOSH, REL-TWA: 0,05 mg/m³
Povere totale
OSHA, PEL-TWA: 30/(2+SiO₂)

BENTONITE ACTIVATED:
INHALABLE POWDER:
Limit value: eight hours
(ppm) / (mg / m³)
Germany (AGS): x / 10 (1) (2) (3)
Germany (DFG): x / 4
Austria: x / 10
Belgium: x / 10
Denmark: x / 10
Spain: x / 10
France: x / 10
Hungary: x / 10
Ireland: x / 10
Singapore: x / 10
Sweden: x / 10
Switzerland: x / 10
USA - OSHA: x / 15

BREATHABLE POWDER
Limit value: eight hours
Germany (AGS): x / 1.25 (1) (2) (3) (4) (5)
Germany (DFG): x / 1.5
Austria: x / 5
Belgium: x / 3
Spain: x / 3
France: x / 5 breathable aerosol
Hungary: x / 6
Ireland: x / 4
Sweden: x / 5
Switzerland: x / 3
USA - OSHA: x / 5

Degrees:

INHALABLE POWDER

Germany (AGS): (1) Insoluble particles (2) not applicable for ultrafine powders and powders with specific toxicity (3) the limit value is a general maximum limit for technical measures, provided that there are no specific regulations for toxic substances or carcinogenic substances available.

BREATHABLE POWDER

France: bold: restrictive legal limit values

Germany (AGS): (1) Insoluble particles (2) not applicable for ultrafine powders and powders with specific toxicity (3) the limit value is a general maximum limit for technical measures, provided that there are no specific regulations for toxic substances or carcinogenic there are substances available (4) the limit value was obtained for powders with an average density of 2.5 mg / mg³ (5) in work areas where all technical and additional measures are state of the art but the LV is not yet respected, the old LV can be applied for a transition period until 31 December 2018 (8 hours - LV: 3.0 mg / m³, 15 minute average value: 6.0 mg / m³)

Germany (DFG): insoluble particles

ACGIH believes that even biologically inert, insoluble or poorly soluble particles can have negative effects and therefore

recommends that the concentration of these dust in the air is kept below: 3 mg / m³, for respirable particles; 10 mg / m³, for inhalable particles, at which time a TLV will be established for the particular substance.

Cellulose:

Limit value - Eight hours
(ppm)/(mg/m³)

Australia: x/10(1)

Belgio: x/10

Canada – Ontario: x/10

Canada - Québec: x/10

France: x/10 inhalable aerosol

Ireland: x/10(1); x/4(2)

Latvia: x/2

New Zealand: x/10(1)

People's Republic of China: x/10

Singapore: x/10

South Korea: x/10

Spain: x/10 inhalable aerosol

Switzerland: x/3 respirable aerosol

USA - NIOSH: x/10(1); x/5(2)

USA - OSHA: x/15 total dust; 5 respirable dust

United Kingdom: : x/10 inhalable aerosol; 4 respirable aerosol

Limit value - Short term

(ppm)/(mg/m³)

Ireland: x/20 (1)(3)

United Kingdom: x/20 inhalable aerosol

Remarks:

Australia: (1) This value is for inhalable dust containing no asbestos and <1 % crystalline silica.

Ireland: (1) Inhalable fraction (2) Respirable fraction (3) 15 minutes reference period

New Zealand: (1) The value for inhalable dust containing no asbestos and less than 1% free silica.

USA – NIOSH: (1) Total dust (2) Respirable aer

- Substance: BENTONITE ACTIVATED

DNEL

Systemic effects Long term Workers inhalation = 10 (mg/m³)

Systemic effects Long term Consumers inhalation = 10 (mg/m³)

PNEC

STP = 100 (mg/l)

8.2. Exposure controls

Appropriate engineering controls:

Manufacture of food products:

Minimize the generation of dust. Use adequate ventilation and extraction equipment to keep air levels below specific exposure limits (operate according to good practices and regulations specific to the type of associated risk).

8.2.2 Individual protection measures:

(a) Eye / face protection

When handling the pure product, wear protective goggles (EN 166).

(b) Skin protection

(i) Hand protection

When handling the pure product, use protective rubber or latex gloves or other protective equipment, as indicated by the occupational risk prevention manager.

(ii) Other

Wear normal work clothing.

(c) Respiratory protection

During manual operations, in case of insufficient ventilation, wear a suitable protective mask (UNI EN 405) except if otherwise indicated by the occupational risk prevention manager or the environmental hygiene analysis assessment.

(d) Thermal hazards

No hazard to report

Environmental exposure controls:

Use according to good working practices and avoid to disperse the product into the environment.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Physical state	White powder mixed with fibers	
Colour	White	
Odour	not determined as considered not relevant for the characterization of the product	
Odour threshold	not determined as considered not relevant for the characterization of the product	
Melting point/freezing point	not determined as considered not relevant for the characterization of the product	
Boiling point or initial boiling point and boiling range	not determined as considered not relevant for the characterization of the product	
Flammability	not determined as considered not relevant for the characterization of the product	
Lower and upper explosion limit	not determined as considered not relevant for the characterization of the product	
Flash point	not determined as considered not relevant for the characterization of the product	ASTM D92
Auto-ignition temperature	not determined as considered not relevant for the characterization of the product	
Decomposition temperature	not determined as considered not relevant for the characterization of the product	
pH	6,0 ± 1,0 (20°C; sol. 10%)	
Kinematic viscosity	not determined as considered not relevant for the characterization of the product	

Physical and chemical properties	Value	Determination method
Solubility	not determined as considered not relevant for the characterization of the product	
Water solubility	disperdible	
Partition coefficient n-octanol/water (log value)	not determined as considered not relevant for the characterization of the product	
Vapour pressure	not determined as considered not relevant for the characterization of the product	
Density and/or relative density	0,12 - 0,145 (20°C)	
Relative vapour density	not determined as considered not relevant for the characterization of the product	
Particle characteristics	not determined as considered not relevant for the characterization of the product	

9.2. Other information

9.2.1 Information with regard to physical hazard classes

Irrilevant

9.2.2 Other safety characteristics

Irrilevant

SECTION 10. Stability and reactivity

10.1. Reactivity

No reactivity hazards

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

There are no hazardous reactions

10.4. Conditions to avoid

Nothing to report

10.5. Incompatible materials

No one

10.6. Hazardous decomposition products

Combustion gases: carbon monoxide and carbon dioxide.

SECTION 11. Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

(a) acute toxicity: based on available data, the classification criteria are not met

ATE(mix) oral = No relevant components

ATE(mix) dermal = No relevant components

ATE(mix) inhal = No relevant components

Perlite:

Ingestion-rat LD50 (mg/kg/bw 24h): 12960.

This product has a low toxicity. May be harmful to health only in large quantities. High concentrations of dust can cause respiratory irritation.

Bentonite activated:

Ingestion-rat LD50 (mg/kg/bw 24h): >5000

Skin contact-LC50 rat/coniglio (mg/kg/bw 24h): >2000

Inhalation-rat LD50 (mg/l/4h): > 50

Cellulose: Ingestion-rat LD50 (mg/kg/bw 24h): >5000

Skin contact-LC50 rat/coniglio (mg/kg/bw 24h): >2000

Inhalation-rat LD50 (mg/l/4h): >5800

(b) skin corrosion/irritation: based on available data, the classification criteria are not met

Perlite: Non-corrosive

Bentonite activated: : Non-corrosive

Cellulose: Non-corrosive

Perlite: Prolonged contact can cause dry skin.

Bentonite activated: : Non-irritating

Cellulose: Non-irritating

(c) serious eye damage/irritation: based on available data, the classification criteria are not met

Perlite: Non-corrosive

Bentonite activated: : Non-corrosive

Cellulose: Non-corrosive

Perlite: The particles in the eyes may cause irritation and smarting.

Bentonite activated: : Non-irritating

Cellulose: Non-irritating

(d) respiratory or skin sensitisation: based on available data, the classification criteria are not met

Perlite: Not available

Bentonite activated: : Non-sensitizing

Cellulose: Non-Sensitizing

(e) germ cell mutagenicity: based on available data, the classification criteria are not met

Perlite: Not available

Bentonite activated: : Non-mutagenic

Cellulose: Not available

(f) carcinogenicity: based on available data, the classification criteria are not met

Perlite: Not available

Bentonite activated: Non-carcinogenic

Cellulose: Not available

(g) Reproductivetoxicity: based on available data, the classification criteria are not met

Perlite: Not available

Bentonite activated: : Non-toxic for reproduction

Cellulose: Not available

(h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not me

Perlite: Not available

Bentonite activated: : Not available

Cellulose: Not available

(i) specific target organ toxicity (STOT) repeated exposurebased on available data, the classification criteria are not met

Perlite: Not available

Bentonite activated: : Not available

Cellulose: Not available

(j) aspiration hazard:based on available data, the classification criteria are not met+

Perlite: Not available

Bentonite activated: : Not available

Cellulose: Not available

11.2. Information on other hazards

Perlite does not exceed the criteria to be considered dangerous according to EC Regulation 1272/2008 and Directive 67/548 / EC which modifies it.

Perlite contains less than 0.1% w / w Respirable Crystalline Silica (RCS).

11.2.1. Endocrine disrupting properties

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

SECTION 12. Ecological information

12.1. Toxicity

=====
Related to contained substances:

Perlite:

Not ecotoxic

Acute toxicity M-factor = 1

Chronic toxicity M-factor = 1

BENTONITE ACTIVATED:

Acute toxicity-fish LC50 (mg/l/96h): n.a.

Acute toxicity-crustacea EC50 (mg/l/48 h): > 100

Acute algae toxicity ErC50 (mg/l/72-96h): > 100

Use according to good working practices and avoid to disperse the product into the environment.

12.2. Persistence and degradability

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Related to contained substances:

Perlite:

The product is not biodegradable

BENTONITE ACTIVATED:

Not biodegradable

Cellulose:

Not persistent

12.3. Bioaccumulative potential

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Related to contained substances:

Perlite:

Not bioaccumulative

BENTONITE ACTIVATED:

Not available

Cellulose:

There is no evidence of bioaccumulation potential.

12.4. Mobility in soil

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Related to contained substances:

Perlite:

Insoluble in water.

BENTONITE ACTIVATED:

Not available

Cellulose:

Not available

12.5. Results of PBT and vPvB assessment

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

12.6. Endocrine disrupting properties

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

12.7. Other adverse effects

No adverse effects

SECTION 13. Disposal considerations**13.1. Waste treatment methods**

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.
Recover if possible. Operate according to local or national regulations

SECTION 14. Transport information**14.1. UN number or ID number**

Not included in the field of application of regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2. UN proper shipping name

None

14.3. Transport hazard class(es)

None

14.4. Packing group

None

14.5. Environmental hazards

None

14.6. Special precautions for user

No data available.

14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk is not foreseen

SECTION 15. Regulatory information

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

Restrictions relating to the product or the substances contained (Annex XVII EC Reg. 1907/2006): not applicable
Substances in Candidate list (art. 59 EC Reg. 1907/2006): the product does not contain SVHC in percentage = a 0.1 %.

Regulation (EU) 1169/2011: see point 2.2

Regulation (EU) 1308/2013; see point 2.2

Regulation (EC) 1333/2008; see point 2.2

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION 16. Other information**16.1. Other information**

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

No hazard to report. Classification procedure: Calculation method

Main normative references:

Reg. (CE) n. 1907 del 18/12/06 REACH (Registration, Evaluation and Authorisation of CHemicals) et seq.

Reg. (CE) 1272/2008 CLP (Classification Labelling and Packaging) et seq.

Directive 2012/18/EU (on the control of major-accident hazards involving dangerous substances) et seq.

Training required: This document must be submitted to the employer to determine the possible need for appropriate training for workers to ensure protection of human health and the environment.

n.a.: not applicable

n.d.: not available

ADR: Accord européen relative au transport International des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ATE: Acute Toxicity Estimati

BFC: BioconCentration Factor

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstract Service number

CAP: Centre AntiPoison

CE/EC number EINECS (European Inventory of existing Commercial Substances) e ELINCS (European List of notified Chemical Substances)

CL50/LC50: Lethal Concentration 50

DL50/LD50: Lethal Dose 50

COD: Chemical Oxygen Demand

DNEL: Derived No Effect Level

EC50: half maximal Effective Concentration

ERC: Enviroment Release Classes

EU/UE: European Union

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods code

Kow: Octanol water partition coefficient

NOEC: No Observed Effect Concentration

OEL: Occupational Exposure Limit

PBT: Persistent Bioaccumulative and Toxic

PC: Product Categories

PNEC: Predicted No Effect Concentration



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PROC: Process Categories

RID: Règlement concernant le transport International ferroviaire des marchandises dangereuses (Regulations concerning International rail transport of dangerous goods)

STOT: Target Organ Systemic Toxicity

STOT (RE): Repeated Exposure

STOT (SE): Single Exposure

STP: Sewage Treatment Plants

SU: Sector of Use

SVCH: Substance of Very High Concern

TLV: Threshold Limit Value

vPvB: Very Persistent Very Bioaccumulative

References and Sources:

- ECHA Registered Substances:

<https://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>

- SDS raw material supplier

- GESTIS International Limit Value: <http://limitvalue.ifa.dguv.de>

This msds was made in good faith by technical Office on the basis of the information available at the date of the last revision. The person in charge must regularly inform the employees about the specific risks they encounter when using this substance/product. The information contained here relate only to the substance/the preparation indicated and may not apply if the product is used improperly or in combination with others. Nothing contained herein shall be construed as a guarantee, either express or implied. It is the responsibility of the user to ensure the opportunities and completeness of the information contained herein for their own particular use.

*** this tab annuls and replaces any previous edition. (IIXX)

Changes to the previous edition: sec. 9
