

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

**1.1. Product identifier**

Product name : FERMOCEL SB  
Product code: refer to sales department

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

Bioregulators and nutrients  
Sectors of use:  
Manufacture of food products[SU4]  
Product category:  
Technological adjuvant for beer 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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Produced by  
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#### **1.4. Emergency telephone number**

AEB SpA

Centralino/Switchboard: +39.030.2307.1 - (h 8.30-12.00 13.30-18.00 GMT +1; Lingua/Language: Italiano, English)

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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:

Information concerning the components: long-chain polysaccharide cellulose, ammonium sulfate, di-ammonium phosphate, chemically inert filter aid, thiamine hydrochloride (vitamin B1).

Food use, brewery use. Not intended for the final consumer. In accordance with current regulations on the specific matter.

### 2.3. Other hazards

The substance / mixture does NOT contain substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

## 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
Cellulose substance for which there are Community workplace exposure limits	>= 50 < 100%			9004-34-6	232-674-9	
PERLITE substance for which there are Community workplace exposure limits	>= 5 < 10%			93763-70-3		

## 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 hazardous. It's possible to give activated charcoal in water or medicinal mineral vaseline oil.

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

Eye contact may cause irritation, including redness and tear. The product is not irritating to the skin; However, repeated and prolonged direct contact may degrade and irritate the skin, causing in some cases dermatitis. The ingested product can cause irritation of the throat and digestive tract mucous, resulting in abnormal digestive symptoms and intestinal disorders. The inhaled product may cause respiratory irritation for repeated exposures.

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#### **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, CO<sub>2</sub>, 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:

Leave the area surrounding the spill or release. Do not smoke

Wear gloves and protective clothing

6.1.2 For emergency responders:

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provide a sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

#### **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**

At work do not eat or drink.  
See also paragraph 8 below.

#### **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, ventilated area away from heat and direct sunlight.  
Keep container tightly closed.

### **SECTION 8. Exposure controls/personal protection**

#### **8.1. Control parameters**

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Related to contained substances:

Cellulose:

Limit value - Eight hours  
(ppm)/(mg/m<sup>3</sup>)

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/m<sup>3</sup>)

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

PERLITE:

PERLITE

Crystalline silica

Limit value - Eight hours

(ppm)/(mg/m<sup>3</sup>)

Australia: x/0,1 (1)

Belgio: x/0,05

Canada – Ontario: x/0,05 (1)

South Korea: x/0,05 (respirable dust)

Dinamarca: x/0,15

Spain: x/0,05 (1)

France: x/0,05 (respirable aerosol)

The Netherlands: x/0,075 (respirable dust)

Hungary: x/0,15 (respirable aerosol)

Ireland: x/0,1 (1)

New Zealand: x/0,1 (1)

Singapore: x/0,05 (respirable aerosol)

Sweden: x/0,05 (1)

Switzerland: x/0,15 (respirable aerosol) MAK

USA – NIOSH: x/0,05

USA – OSHA: x/0,5 (30/(% silica+2))

Limit value - Short term

(ppm)/(mg/m<sup>3</sup>)

Australia: x/x

Belgio: x/x

Canada – Ontario: x/x

South Korea: x/x

Denmark: x/0,3

Spain: x/x

France: x/x

The Netherlands: x/x

Hungary: x/x

Ireland: x/x

New Zealand: x/x

Singapore: x/x

Sweden: x/x

Switzerland: x/x

USA – NIOSH: x/x

USA – OSHA: x/x

Note

Australia: (1) respirable dust

Canada – Ontario: (1) respirable aerosol

Spain: (1) respirable fraction (INSHT 2018).

Francia: Negrita: Regulatory restrictive limit values.

Irlanda: (1) respirable fraction

Nueva Zelanda: (1) respirable aerosol

Suecia: (1) respirable dust

Perlite

Dust

Limit value - Eight hours  
(ppm)/(mg/m<sup>3</sup>)

Australia: x/10(1)

Austria: x/5 inhalable aerosol

Belgio: x/10

Canada - Ontario: x/10 (1)

Canada - Quebec: x/10 (total) - 5 (respirable fraction)

South Korea: x/10

Latvia: x/4 (1)

People's Republic of China: x/8 (1) - 4 (2)

Singapore: x/10

USA - NIOSH: x/10 total dust- 5 respirable.

Limit value - Short term  
(ppm)/(mg/m<sup>3</sup>)

Australia: x/x

Austria: x/10 inhalable aerosol

Belgio: x/x

Canada - Ontario: x/x

Canada - Quebec: x/x

South Korea: x/x

Latvia: x/x

People's Republic of China: x/x

Singapore: x/x

USA - NIOSH: x/x

Note:

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

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

Latvia: (1) and tuff, pemza.

People's Republic of China: (1) inhalable fraction (2) respirable fraction

Perlite has not been classified separately by the Occupational Safety and Health Administration (OSHA). No However, the product contains crystalline silica in the form of quartz powder below 0.1%. In 2011 the Agency International Cancer Research Agency (IARC) concluded that crystalline silica in the form of quartz powder or cristobalite is carcinogenic to humans (Group 1).

- Substance: PERLITE: Dust

DNEL

Systemic effects Long term Workers inhalation = 37 (mg/m<sup>3</sup>)

Systemic effects Long term Workers dermal = 50 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 18,3 (mg/m<sup>3</sup>)

Systemic effects Long term Consumers dermal = 25 (mg/kg bw/day)

Systemic effects Long term Consumers oral = 25 (mg/kg bw/day)

Local effects Long term Workers inhalation = 18 (mg/m<sup>3</sup>)

Local effects Long term Consumers inhalation = 9 (mg/m<sup>3</sup>)

PNEC

Sweet water = 0,74 (mg/l)

sediment Sweet water = 2,74 (mg/kg/sediment)

Sea water = 0,074 (mg/l)

sediment Sea water = 0,274 (mg/kg/sediment)

intermittent emissions = 10 (mg/l)

STP = 500 (mg/l)

ground = 0,15 (mg/kg ground)

- Substance: Perlite: CRYSTALLINE SILICA

DNEL

Systemic effects Long term Workers Inhalation = 0.05 (mg / m3)

Systemic effects Long term Consumers Inhalation = 0.05 (mg / m3)

Systemic effects Long term Consumers Oral = 18.7 (mg / kg bw / day)

PNEC

STP = 100 (mg / l)

## 8.2. Exposure controls

Appropriate engineering controls:

Manufacture of food products:

No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

8.2.2 Individual protection measures:

(a) Eye / face protection

Not needed for normal use, unless otherwise provided by the employer and / or by assessments of environmental hygiene investigations

(b) Skin protection

(i) Hand protection

Not needed for normal use, unless otherwise provided by the employer and / or by assessments of environmental hygiene investigations

(ii) Other

Wear normal work clothing.

(c) Respiratory protection

Not needed for normal use, unless otherwise provided by the employer and / or by assessments of environmental hygiene investigations

(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
Appearance	Powder	
Colour	White	
Odour	not determined as it is considered not relevant for the characterization of the product	



Physical and chemical properties	Value	Determination method
Odour threshold	not determined as it is considered not relevant for the characterization of the product	
pH	7.5 ± 0.5 (20 ° C; sol. 5%)	
Melting point/freezing point	not determined as it is considered not relevant for the characterization of the product	
Initial boiling point and boiling range	not determined as it is considered not relevant for the characterization of the product	
Flash point	not determined as it is considered not relevant for the characterization of the product	ASTM D92
Evaporation rate	not determined as it is considered not relevant for the characterization of the product	
Flammability (solid, gas)	not determined as it is considered not relevant for the characterization of the product	
Upper/lower flammability or explosive limits	not determined as it is considered not relevant for the characterization of the product	
Vapour pressure	not determined as it is considered not relevant for the characterization of the product	
Vapour density	not determined as it is considered not relevant for the characterization of the product	
Relative density	0.25 - 0.45 (20 ° C)	
Solubility	not determined as it is considered not relevant for the characterization of the product	
Water solubility	dispersible	
Partition coefficient: n-octanol/water	not determined as it is considered not relevant for the characterization of the product	
Auto-ignition temperature	not determined as it is considered not relevant for the characterization of the product	
Decomposition temperature	not determined as it is considered not relevant for the characterization of the product	
Viscosity	not determined as it is considered not relevant for the characterization of the product	
Explosive properties	not determined as it is considered not relevant for the characterization of the product	
Oxidising properties	not determined as it is considered not relevant for the characterization of the product	

## 9.2. Other information

No data available.

## 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

It damps moisture. Avoid exposure to heat sources.

### 10.5. Incompatible materials

None in particular.

### 10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11. Toxicological information

### 11.1. Information on toxicological effects

ATE(mix) oral = ∞  
ATE(mix) dermal = ∞  
ATE(mix) inhal = ∞

(a) acute toxicity: 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

PERLITE: Non toxic

(b) skin corrosion/irritation Cellulose: Non-corrosive

PERLITE: Not corrosive

Cellulose: Non-irritating

PERLITE: Not irritating

(c) serious eye damage/irritation: Cellulose: Non-corrosive

PERLITE: Not corrosive

Cellulose: Non-irritating

PERLITE: Not irritating

(d) respiratory or skin sensitization: Cellulose: Non-Sensitizing

PERLITE: There is no classification of respiratory or skin sensitivity.

(e) germ cell mutagenicity: Cellulose: Not available

PERLITE: Based on available data, the classification criteria are not met.

(f) carcinogenicity: Cellulose: Not available

PERLITE: Based on available data, the classification criteria are not met.

(g) reproductive toxicity: Cellulose: Not available

PERLITE: Based on available data, the classification criteria are not met.

(h) specific target organ toxicity (STOT) single exposure: Cellulose: Not available

PERLITE: Based on available data, the classification criteria are not met.

(i) specific target organ toxicity (STOT) repeated exposure Cellulose: Not available

PERLITE: Based on available data, the classification criteria are not met.

(j) aspiration hazard: Cellulose: Not available

PERLITE: Based on available data, the classification criteria are not met.

Health Hazards:

Eye contact: Accidental contact of product with eyes may cause irritation.

Skin Contact: Product is not an irritant. Prolonged or repeated contact may defeat and irritate the skin and cause dermatitis in some cases.

Ingestion: The ingested product may cause irritation of the mucous membranes of the throat and digestive system leading to digestive symptoms and abnormal bowel disorders.

Inhalation: Prolonged exposure to vapours or mists of product may cause respiratory irritation.

### 11.2. Information on other hazards

No data available.

## SECTION 12. Ecological information

### 12.1. Toxicity

=====  
Related to contained substances:  
PERLITE:  
Not ecotoxic

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

### 12.2. Persistence and degradability

=====  
Related to contained substances:  
Cellulose:  
Not persistent  
  
PERLITE:  
Not relevant for inorganic substance

### 12.3. Bioaccumulative potential

=====  
Related to contained substances:  
Cellulose:  
There is no evidence of bioaccumulation potential.  
  
PERLITE:  
Not relevant for inorganic substance

### 12.4. Mobility in soil

=====  
Related to contained substances:  
Cellulose:  
Not available  
  
PERLITE:  
Not significant

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**12.5. Results of PBT and vPvB assessment**

No PBT/vPvB ingredient is present

**12.6. Endocrine disrupting properties**

No data available.

**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**

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. Transport in bulk according to Annex II of MARPOL73/78 and IBC Code**

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 contained substances (All. XVII Reg. EC 1907/2006): not applicable  
Substances in Candidate List (art. 59 Reg. EC 1907/2006): the product does not contain SVHC  
Substances subject to authorisation (Ann. XIV Reg. CEC 1907/2006): the product does not contain SVHC  
Reg. EC 648/04: see 2.2  
Reg. (EU) n. 1169/2011: see 2.2  
Reg (UE) 528/2012: see.to 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**

Points modified compared to previous release: 1.2. Relevant identified uses of the substance or mixture and uses advised against, 2.2. Label elements, 8.1. Control parameters, 8.2. Exposure controls

Classification based on data of all mixture components

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.  
Regulation (EC) n. 648 of 31/03/04 (on detergents) et seq.  
Regulation (UE) n. 1169/2011 (on the provision of food information to consumers)  
Directive 2012/18/EU (on the control of major-accident hazards involving dangerous substances) et seq.  
Regulation (UE) 528/2012 (Biocides) et seq.

Procedure used to classify under CLP mixture (Reg . EC 1272/2008): irrilevant

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: Environment 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  
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 supplier
- GESTIS DNEL Database: <http://www.dguv.de/ifa/gestis/gestis-dnel-datenbank/index-2.jsp>
- GESTIS International Limit Value: <http://limitvalue.ifa.dguv.de>

This msds was made in good faith by AEB 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: compliance with Regulation 2020/878.

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