

**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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25134 Brescia

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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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AEB USA

Switchboard: +1 2096258139 (GMT -8; Language: English)

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AEB AFRICA (PTY) LTD

Switchboard: +27 215512700 (GMT +1; Language: English, Afrikaans)

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AEB OCEANIA PTY LTD

Switchboard: +61 1300 704 971 (GMT +9; Language: English)

## **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.

Information concerning the components: 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.

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### 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

This document is outside the scope of Article 31, paragraph 1 of REACH

## 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	Exempt, polymer
Diammonium hydrogen phosphate substance for which there are Community workplace exposure limits	>= 5 < 10%	ATE oral > 2.000,000 mg/kg ATE dermal > 5.000,000 mg/kg ATE inhal > 5.000,000 mg/l/4 h		7783-28-0	231-987-8	01-2119490 974-22-XXX X
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 dangerous. In case of malaise consult a doctor.

#### **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.

#### **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

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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**

=====  
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

Diammonium hydrogen phosphate:  
No data available.

PERLITE:

Perlite: Crystalline Silica  
Limit value - 8 hours  
(ppm) / (mg / m<sup>3</sup>)  
Australia: x / 0.05 (1)  
Belgium: x / 0.05  
Canada - Ontario: x / 0.05 (1)  
Canada - Québec: x / 0.05 (1)  
South Korea: x / 0.05 (respirable dust)  
Denmark: x / 0.15 (1)  
          x / 0.05 (2)  
Spain: x / 0.05 (1)  
France: x / 0.05 respirable aerosol  
Hungary: x / 0.15 respirable aerosol  
Ireland: x / 0.1 (1)  
New Zealand: x / 0.1 (1)  
Netherlands: x / 0.075 respirable dust  
Poland: x / 0.1 (1)  
Singapore: x / 0.05 respirable aerosol  
Sweden: x / 0.05 (1)  
Switzerland: x / 0.15 respirable aerosol  
USA - NIOSH: x / 0.05  
USA - OSHA: 0.5 (30 / (% silica + 2))

Limit value - Short term  
(ppm) / (mg / m<sup>3</sup>)  
Denmark: x / 0.3 (1) (3)  
          x / 0.1 (2) (3)

Observations

Australia: (1) Respirable fraction.

Canada - Ontario: (1) Breathable aerosol.  
Canada - Québec: (1) Respirable fraction.  
Denmark: (1) Inhalable fraction (2) Respirable fraction (3) 15 minute mean value.  
France: Restrictive legal limit values.  
Ireland: (1) Respirable fraction.  
New Zealand: (1) Breathable aerosol.  
Poland: (1) Respirable fraction.  
Spain: (1) Respirable fraction.  
Sweden: (1) Respirable dust.

Perlite: Powder

Limit value - Eight hours

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

Australia: x / 10 (1)

Austria: x / 5 inhalable aerosol

Belgium: x / 10

Canada - Ontario: x / 10 (1)

Canada - Quebec: x / 10 (total)  
x / 5 (breathable)

South Korea: x / 10

Latvia: x / 4 (1)

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

x / 4 (2)

Singapore: x / 10

USA - NIOSH: x / 10 total dust

x / 5 respirable fraction.

Limit value - Short term

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

Australia: x / x

Austria: x / 10 inhalable aerosol

Belgium: 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

Notes:

Australia: (1) This value is for inhalable dust that does not contain asbestos and <1% crystalline silica.

Canada - Ontario: (1) This value is for inhalable dust that does not contain 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). However, the product contains crystalline silica in the form of quartz powder below 0.1%. In 2011 the International Agency for Research on Cancer (IARC) concluded that crystalline silica in the form of quartz or cristobalite powder is carcinogenic to humans (Group 1).

- Substance: Diammonium hydrogen phosphate

DNEL

Systemic effects Long term Workers inhalation = 6,1 (mg/m<sup>3</sup>)

Systemic effects Long term Workers dermal = 34,7 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 1,8 (mg/m<sup>3</sup>)

Systemic effects Long term Consumers dermal = 20,8 (mg/kg bw/day)

Systemic effects Long term Consumers oral = 2,1 (mg/kg bw/day)

PNEC

Sweet water = 1,7 (mg/l)  
Sea water = 0,17 (mg/l)  
STP = 10 (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:

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Related to contained substances:

Diammonium hydrogen phosphate:

Appropriate technical controls:

Industrial use: refer to scenarios of use.

Personal protective measures:

a) eye/face protection

Not required for normal use.

b) skin Protection

i) hand protection

When handling the pure product use protective gloves resistant to chemical products (EN374 -2/ -1/EN374 EN374-3).

ii) More

When handling the pure product wear a full skin protection.

c) respiratory protection:

Not required for normal use.

d) thermal Hazards

No danger to report.

Environmental exposure controls:

Minimize the release of the product into the environment.

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## SECTION 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Physical state	Dust	
Colour	White	
Odour	not determined as it is 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 it is considered not relevant for the characterization of the product	
Boiling point or initial boiling point and boiling range	not determined as it is considered not relevant for the characterization of the product	
Flammability	irrelevant	
Lower and upper explosion limit	irrelevant	
Flash point	irrelevant	ASTM D92
Auto-ignition temperature	irrelevant	
Decomposition temperature	irrelevant	
pH	7.5 ± 0.5 (20 ° C; sol. 5%)	
Kinematic viscosity	not determined as considered not relevant for the characterization of the product	
Solubility	not determined as it is considered not relevant for the characterization of the product	
Water solubility	dispersible	
Partition coefficient n-octanol/water (log value)	not determined as considered not relevant for the characterization of the product	
Vapour pressure	irrelevant	
Density and/or relative density	0.25 - 0.45 (20 ° C)	
Relative vapour density	irrelevant	
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

=====  
Related to contained substances:  
Diammonium hydrogen phosphate:  
No risk of reactivity.

### 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 hazard classes as defined in Regulation (EC) No 1272/2008

(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

Diammonium hydrogen phosphate: Not classified

PERLITE: Non toxic

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

Diammonium hydrogen phosphate: Non-corrosive

PERLITE: Not corrosive

Cellulose: Non-irritating

Diammonium hydrogen phosphate: Non-irritating

PERLITE: Not irritating

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

Diammonium hydrogen phosphate: Non-corrosive

PERLITE: Not corrosive  
Cellulose: Non-irritating  
Diammonium hydrogen phosphate: Non-irritating  
PERLITE: Not irritating  
(d) respiratory or skin sensitisation: Cellulose: Non-Sensitizing  
Diammonium hydrogen phosphate: Non-sensitizing  
PERLITE: There is no classification of respiratory or skin sensitivity.  
(e) germ cell mutagenicity: Cellulose: Not available  
Diammonium hydrogen phosphate: Not available  
PERLITE: Based on available data, the classification criteria are not met.  
(f) carcinogenicity: Cellulose: Not available  
Diammonium hydrogen phosphate: Not available  
PERLITE: Based on available data, the classification criteria are not met.  
(g) reproductive toxicity: Cellulose: Not available  
Diammonium hydrogen phosphate: Not available  
PERLITE: Based on available data, the classification criteria are not met.  
(h) specific target organ toxicity (STOT) single exposure: Cellulose: Not available  
Diammonium hydrogen phosphate: Not available  
PERLITE: Based on available data, the classification criteria are not met.  
(i) specific target organ toxicity (STOT) repeated exposure: Cellulose: Not available  
Diammonium hydrogen phosphate: Not available  
PERLITE: Based on available data, the classification criteria are not met.  
(j) aspiration hazard: Cellulose: Not available  
Diammonium hydrogen phosphate: Not available  
PERLITE: Based on available data, the classification criteria are not met.

Diammonium hydrogen phosphate:  
LD50 (rat) Oral (mg/kg body weight) > 2000  
LD50 Dermal (rat or rabbit) (mg/kg body weight) > 5000  
CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) > 5000

PERLITE:  
Health Risks Eye Exposure: Accidental contact of the product with the eyes may cause irritation. Skin exposure: the product is not irritating. Repeated and prolonged direct contact can dry and irritate the skin, causing dermatitis in some cases. Ingestion: ingestion of the product may cause irritation of the mucous membranes of the throat and digestive system, resulting in abnormal digestive symptoms and intestinal disorders. Inhalation: Prolonged exposure to vapors or mists from the product may cause irritation of the airways

### 11.2. Information on other hazards

No data available.

#### 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:  
Diammonium hydrogen phosphate:  
Acute toxicity-fish LC50 (mg/l/83d): 1700  
Acute toxicity-crustacea EC50 (mg/l/48 h): 52-81

Acute algae toxicity ErC50 (mg/l/72-69): > 97.1  
Acute toxicity M-factor = 1

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

Diammonium hydrogen phosphate:  
Not applicable

PERLITE:  
Not relevant for inorganic substance

### **12.3. Bioaccumulative potential**

=====  
Related to contained substances:  
Cellulose:  
There is no evidence of bioaccumulation potential.

Diammonium hydrogen phosphate:  
Minimum potential for bioaccumulation

PERLITE:  
Not relevant for inorganic substance

### **12.4. Mobility in soil**

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

Diammonium hydrogen phosphate:  
Not available

PERLITE:  
Not significant

### **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

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### **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.

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#### **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 (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**

Points modified compared to previous release: 2.2. Label elements

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

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\*\*\* this tab annuls and replaces any previous edition.

Changes to the previous edition: section 2.2

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