

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

1.1. Product identifier

Product name : MICROFLUX
Product code: refer to sales department

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

Clarifying Agents
Sectors of use:
Manufacture of food products[SU4]
Product category:
Process aid for enological use

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

1.3. Details of the supplier of the safety data sheet

AEB SpA - Via Vittorio Arici 104 S.Polo - 25134 Brescia (BS) Italy
Tel. +39.030.2307.1 Fax +39.030.2307281
E-mail: info@aeb-group.com - Internet: www.aeb-group.com
E-mail tecnico competente/technical dept.: sds@aeb-group.com

AEB USA
111 N Cluff Avenue
Lodi CA 95240 (USA)
Tel: +1 2096258139 Fax: +1 2092248953
Email: info@aebusa.com - Internet: www.aeb-group.com

AEB AFRICA (PTY) LTD
18 Track Crescent, Cor. Station Road
Montague Gardens 7441
Cape Town (South Africa)
Tel.: +27 215512700 - Fax: +27 (0) 215511919
Email: info@aeb.co.za - Internet: www.aeb-group.com

AEB OCEANIA PTY LTD
178A Wakaden Street
Griffith NSW 2680
T: 1300 704 971
Email: aeboceania@aeb-group.com - Internet: www.aeb-group.com

Produced by
AEB SpA
Via Vittorio Arici 104 S. Polo
25134 Brescia

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)

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

AEB AFRICA (PTY) LTD
Switchboard: +27 215512700 (GMT +1; Language: English, Afrikaans)

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.

Contains:
Ingredients: perlite, potassium caseinate(a), cellulose.
Food use, oenological use. Not intended for the final consumer. In accordance with current regulations on the specific matter.

(a)= Milk and products thereof.
(<Milk and products thereof>in compliance with Regulation (EU) No 1169/2011 - Annex II and subsequent additions and modifications)

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

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	$\geq 50 < 100\%$			93763-70-3		
Cellulose substance for which there are Community workplace exposure limits	$\geq 25 < 50\%$			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

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 dermatitis in some cases.

The ingested product can cause irritation of the throat and digestive mucosa with consequent symptoms

Abnormal digestive tract 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, 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:

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

=====
Related to contained substances:
Perlite:
Perlite: Powder (n°CAS 93763-70-3)
Limit value - Eight hours
(ppm)/(mg/m³)
Australia: x/10(1)
Austria: x/5 inhalable aerosol
Belgium: x/10
Canada - Ontario: x/10 (1)
Canada - Quebec: x/10 (1)(3); x/5 (2)(3)
Latvia: x/4 (1)
Norway: x/10 (1); x/4 (2); x/2 (3)
People's Republic of China: x/8 (1); x/4 (2)
Singapore: x/10
South Korea: x/10
USA - NIOSH: x/10 (1); x/5 (2)
USA - OSHA: x/15 (1); x/5 (2)

Limit value - Short term
(ppm)/(mg/m³)
Australia: x/x
Austria: x/10 inhalable aerosol
Belgium: x/x
Canada - Ontario: x/x

Canada - Quebec: x/x
Latvia: x/x
Norway: x/x
People's Republic of China: x/x
Singapore: x/x
South Korea: x/x
USA - NIOSH: x/x
USA - OSHA: x/x

Remarks:

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
Canada – Québec: (1) Total dust (2) Respirable fraction (3) The standard corresponds to dust containing no asbestos and the percentage in crystalline silica is less than 1%
Latvia: (1) And Tuff, pemza.
Norway: (1) Total dust (2) Respirable fraction (3) Persulfates
People's Republic of China: (1) Inhalable fraction (2) Respirable fraction.
USA - NIOSH: (1) Total dust (2) Respirable fraction
USA - OSHA: (1) Inhalable fraction (2) Respirable fraction

Perlite: Crystalline Silica (Cristobalite, total – n° CAS 14464-46-1)

Limit value - 8 hours

(ppm)/(mg/m³)

Australia: x/0.05 (1)

Canada - Ontario: x/0.05 (1)

Canada - Quebec: x/0.05 (1)

Denmark: x/0.15 (1); x/0.05 (2)

France: x/0.05 respirable aerosol (Restrictive statutory limit value)

Hungary: x/0.15 respirable aerosol

Ireland: x/0.1 (1)

New Zealand: x/0.1 (1)

Norway: x/0.15 (1); x/0.05 (2)

Poland: x/0.1 (1)

Singapore: x/0.05 respirable aerosol

South Korea: x/0.05 (1)

Spain: x/0.05 (1)

Sweden: x/0.05 (1)

Switzerland: x/0.15 respirable aerosol

The Netherlands: x/0.075 respirable dust

USA - NIOSH: x/0.05

USA - OSHA: x/0.05 (1)

Limit value - Short term

(ppm)/(mg/m³)

Australia: x/x

Canada - Ontario: x/x

Canada - Quebec: x/x

Denmark: x/3 (1)(3); x/0.1 (2)(3)

France: x/x

Hungary: x/x

Ireland: x/x

New Zealand: x/x

Norway: x/x

Poland: x/x

Singapore: x/x

South Korea: x/x

Spain: x/x

Sweden: x/x

Switzerland: x/x
The Netherlands: x/x
USA - NIOSH: x/x
USA - OSHA: x/x

Remarks:

Australia: (1) Respirable fraction
Canada – Ontario (1) Respirable aerosol
Canada – Québec (1) Respirable fraction
Denmark: (1) Inhalable fraction (2) Respirable fraction (3) 15 minutes average value
Ireland: (1) Respirable fraction
New Zealand: (1) Respirable aerosol
Norway: (1) Total dust (2) Respirable fraction
Poland: (1) Respirable fraction
South Korea: (1) Respirable fraction
Spain: (1) Respirable fraction
Sweden: (1) Respirable dust
USA – OSHA: (1) Respirable fraction

Perlite has not been separately classified by the Occupational Safety and Health Administration (OSHA). 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). However, the product contains crystalline silica in the form of quartz powder below 0.05%.

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

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

During manual operations in case of insufficient ventilation, use a mask (UNI EN 149) with FFP dust filter commensurate with the environmental hygiene conditions, unless otherwise specified by the employer.

(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	Fine powder	
Colour	Beige	
Odour	not determined as deemed not relevant to the characterization of the product	
Odour threshold	not determined as deemed not relevant to the characterization of the product	
Melting point/freezing point	not determined as deemed not relevant to the characterization of the product	
Boiling point or initial boiling point and boiling range	not determined as deemed not relevant to the characterization of the product	
Flammability	not determined as deemed not relevant to the characterization of the product	

Physical and chemical properties	Value	Determination method
Lower and upper explosion limit	not determined as deemed not relevant to the characterization of the product	
Flash point	not determined as deemed not relevant to the characterization of the product	ASTM D92
Auto-ignition temperature	not determined as deemed not relevant to the characterization of the product	
Decomposition temperature	not determined as deemed not relevant to the characterization of the product	
pH	6,5 ± 0,5 (20°C; sol. 5%)	
Kinematic viscosity	not determined as deemed not relevant to the characterization of the product	
Solubility	not determined as deemed not relevant to the characterization of the product	
Water solubility	not determined as deemed not relevant to the characterization of the product	
Partition coefficient n-octanol/water (log value)	not determined as deemed not relevant to the characterization of the product	
Vapour pressure	not determined as deemed not relevant to the characterization of the product	
Density and/or relative density	0,16 ± 0,02 (20°C)	
Relative vapour density	not determined as deemed not relevant to 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

No data available.

9.2.2 Other safety characteristics

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

Damaged by humidity. Avoid exposure to heat sources.

10.5. Incompatible materials

No one 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: Perlite: Non toxic
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: Perlite: Not corrosive
Cellulose: Non-corrosive
Perlite: Not irritating
Cellulose: Non-irritating

(c) serious eye damage/irritation: Perlite: Not corrosive
Cellulose: Non-corrosive
Perlite: Not irritating
Cellulose: Non-irritating

(d) respiratory or skin sensitisation: Perlite: There is no classification of respiratory or skin sensitivity.
Cellulose: Non-Sensitizing

(e) germ cell mutagenicity: Perlite: Based on available data, the classification criteria are not met.
Cellulose: Not available

(f) carcinogenicity: Perlite: Based on available data, the classification criteria are not met.
Cellulose: Not available

(g) reproductive toxicity: Perlite: Based on available data, the classification criteria are not met.
Cellulose: Not available

(h) specific target organ toxicity (STOT) single exposure: Perlite: Based on available data, the classification criteria are not met.
Cellulose: Not available

(i) specific target organ toxicity (STOT) repeated exposure: Perlite: Based on available data, the classification criteria are not met.
Cellulose: Not available

(j) aspiration hazard: Perlite: Based on available data, the classification criteria are not met.
Cellulose: Not available

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.

=====

Related to contained substances:

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.

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:

Perlite:

Not relevant for inorganic substance

Cellulose:

Not persistent

12.3. Bioaccumulative potential

=====

Related to contained substances:

Perlite:

Not relevant for inorganic substance

Cellulose:

There is no evidence of bioaccumulation potential.

12.4. Mobility in soil

=====

Related to contained substances:

Perlite:
Not significant

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

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 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 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 in a proportion $\geq 0.1\%$.
Substances subject to authorisation (Ann. XIV Reg. CEC 1907/2006): the product does not contain SVHC in a proportion $\geq 0.1\%$.
Reg. (EU) n. 1169/2011: see 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, 2.1. Classification of the substance or mixture, 2.2. Label elements, 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008, 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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.

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.

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 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.