

FERMOPLUS INTEGRATEUR

Issued on 08/05/2019 - Rel. # 6 on 08/05/2019

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In conformity to Regulation (EU) 2015/830

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

1.1. Product identifier

Product name : FERMOPLUS INTEGRATEUR Product code: refer to sales department

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

Fermentation controls 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

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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)

AEB BIOCHEMICAL 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:

Information concerning the components: di-ammonium phosphate 47.94%, yeast hulls, autolysates of yeast, inert filter aid 7%, thiamine hydrochloride (vitamin B1) 0.06%.

Only for professional use. Food use, oenological use. In accordance with current regulations on the specific matter.



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2.3. Other hazards

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

No information on other hazards

SECTION 3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

No dangerous substance to report.

Substance	Concentration	Classification	Index	CAS	EINECS	REACh
Perlite substance for which there are Community workplace exposure limits	> 5 <= 10%			93763-70-3	618-970-4	

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 thorougly 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

Contact with eyes may cause irritation, including redness and tearing.

The product does not irritate the skin; However, repeated direct and prolonged contact may defat and irritate your skin causing in some cases dermatitis.

The ingested product may cause irritation of the mucous membranes of the throat and digestive system resulting in symptoms

abnormal digestive and intestinal disorders.

The inhaled product may cause irritation to the respiratory tract 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, 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 and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

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. Privide 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



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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: 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 – Québec: x/10(total) – 5 (respirable) Latvia: x/4(1) People's Republic of China: x/8(1) - 4(2)Singapore: x/10 South Korea: x/10 USA - NIOSH: x/10 total dust - 5 respirable fraction Limit value – Short term

Limit value – Short term Australia: x/x Austria: x/10 inhalable aerosol Belgium: x/x Canada – Ontario: x/x Canada – Québec: x/x Latvia: x/x



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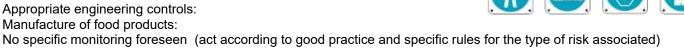
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People's Republic of China: x/x Singapore: x/x South Korea: x/x USA – NIOSH: x/x

Remarks Australia: (1) This value is for inhalable dust containing no asbestos and <1% cristalline silica. Canada – Ontario: (1) This value us for particulate matter containing no asbestos and <1% crystalline silica Latvia: (1) and tuff, pemza People's Republic of China: (1) Inhalable fraction (2) Respirable fraction

8.2. Exposure controls



8.2.2 Individual protection measures:

(a) Eye / face protection

When handling the pure product use safety glasses (EN 166).

(b) Skin protection

(i) Hand protection

When handling the pure product use protective rubber or latex gloves, or other protective equipment, according to the instructions of the employer

(ii) Other

When handling the pure product, wear full protective clothing (generic workwear) or other protective equipment, according to the instructions of the employer

(c) Respiratory protection

Not needed for normal use.

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

(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	Fine beige powder	



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Physical and chemical properties	Value	Determination method
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	
рН	7.9 ± 0.5 (20 ° C; 5%)	
Melting point/freezing point	not determined as considered not relevant for the characterization of the product	
Initial boiling point and boiling range	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
Evaporation rate	not determined as considered not relevant for the characterization of the product	
Flammability (solid, gas)	not determined as considered not relevant for the characterization of the product	
Upper/lower flammability or explosive limits	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	
Vapour density	not determined as considered not relevant for the characterization of the product	
Relative density	0.75 ± 0.10 (20 ° C)	
Solubility	in water	
Water solubility	dispersible	
Partition coefficient: n-octanol/water	not determined as considered not relevant for the characterization of the product	
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	
Viscosity	not determined as considered not relevant for the characterization of the product	
Explosive properties	not determined as considered not relevant for the characterization of the product	
Oxidising properties	not determined as 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.



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10.3. Possibility of hazardous reactions

There are no hazardous reactions

10.4. Conditions to avoid

Avoid exposure to heat.

10.5. Incompatible materials

No one in particular

10.6. Hazardous decomposition products

Ammonia fumes

SECTION 11. Toxicological information

11.1. Information on toxicological effects

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

(a) acute toxicity: 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.
 - (b) skin corrosion/irritationPerlite: Non-corrosive
- Perlite: Prolonged contact can cause dry skin.
- (c) serious eye damage/irritation: Perlite: Non-corrosive
- Perlite: The particles in the eyes may cause irritation and smarting.
- (d) respiratory or skin sensitization: Perlite: Not available
- (e) germ cell mutagenicity: Perlite: Not available
- (f) carcinogenicity: Perlite: Not available
- (g) reproductive toxicity: Perlite: Not available
- (h) specific target organ toxicity (STOT) single exposure: Perlite: Not available
- (i) specific target organ toxicity (STOT) repeated exposurePerlite: Not available
- (j) aspiration hazard: Perlite: 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.



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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: The product is not biodegradable

12.3. Bioaccumulative potential

Related to contained substances: Perlite: Not bioaccumulative

12.4. Mobility in soil

Related to contained substances: Perlite: Insoluble in water.

12.5. Results of PBT and vPvB assessment

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

12.6. 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



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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

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier



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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

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.

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 europèen relative au transport International des merchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road) ATE: Acute Toxicity Estimat **BFC: BioconCentration Factor BOD: Biochemical Oxigen 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 **PROC:** Process Categories RID: Règlement concernent le transport International ferroviaire des merchandises 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



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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

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

Changes to the previous edition: documental allignment