

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

### **1.1. Product identifier**

Product name : ENOVIT

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:

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

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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:

Ingredients: ammonium sulphate, ammonium biphosphate, excipient, thiamine hydrochloride (vitamin B1) 0,20%.  
Food use, oenological use. Not intended 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
PERLITE substance for which there are Community workplace exposure limits	$\geq 3 < 5\%$			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.

### 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:

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 - POWDER**

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: CRYSTALLINE SILICA

DNEL

Systemic effects Long term Workers Inhalation = 0.05 (mg / m<sup>3</sup>)

Systemic effects Long term Consumers Inhalation = 0.05 (mg / m<sup>3</sup>)

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	granular powder	

Physical and chemical properties	Value	Determination method
Colour	White	
Odour	not determined as it is considered not relevant for the characterization of the product	
Odour threshold	not determined as it is considered not relevant for the characterization of the product	
pH	8.0 ± 0.5 (20 ° C; sol. 1%)	
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	0.80 ± 0.05 (20 ° C)	
Solubility	not determined as it is considered not relevant for the characterization of the product	
Water solubility	Not determined as it is considered not relevant to the characterization of the product	
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**

Nothing to report

## **10.5. Incompatible materials**

None in particular

## **10.6. Hazardous decomposition products**

Decomposed heat emits HCl.

# **SECTION 11. Toxicological information**

## **11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

ATE(mix) oral =  $\infty$

ATE(mix) dermal =  $\infty$

ATE(mix) inhal =  $\infty$

(a) acute toxicity: PERLITE: Non toxic

(b) skin corrosion/irritation: PERLITE: Not corrosive

PERLITE: Not irritating

(c) serious eye damage/irritation: PERLITE: Not corrosive

PERLITE: Not irritating

(d) respiratory or skin sensitisation: PERLITE: There is no classification of respiratory or skin sensitivity.

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

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

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

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

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

(j) aspiration hazard: 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.

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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

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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

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Related to contained substances:

PERLITE:

Not relevant for inorganic substance

### 12.3. Bioaccumulative potential

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Related to contained substances:

PERLITE:

Not relevant for inorganic substance

### 12.4. Mobility in soil

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Related to contained substances:

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 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  
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): irrelevant

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>

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

Changes to the previous edition: label variation.