

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

**1.1. Product identifier**

Product name : FERMOPLUS Liquid  
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**

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

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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.

Contains:

Ingredients: yeast cell walls, yeast autolysates, water q.s. to 100. pH adjuster: phosphoric acid.

Food use, oenological 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

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration[ w/w]	Classification	Index	CAS	EINECS	REACH
Orthophosphoric acidB	>= 5 < 10%	Met. Corr. 1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318 Limits: Skin Corr. 1B, H314 %C >=25; Skin Irrit. 2, H315 10<= %C <25; Eye Irrit. 2, H319 10<= %C <25;	015-011-00-6	7664-38-2	231-633-2	01-2119485 924-24-XXX X

## 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

No data available.

### 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 with earth or sand.

If the product has entered a watercourse, sewers or has contaminated soil or vegetation, notify the 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 removal. Possibly absorb it with inert material or suck it.

Prevent it from entering the sewer system.

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**

Avoid contact and inhalation of vapors  
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:  
Orthophosphoric acid:  
Limit value – Eight hours  
(ppm)/(mg/m<sup>3</sup>)  
Argentina: x/1  
Australia: x/1  
Austria: x/1  
Belgium : x/1  
Canada-Ontario: x/1  
Canada-Québec: x/1  
Czech rep.: x/1  
Denmark: x/1  
European Union: x/1  
Finland: x/1  
France: 0.2/1  
Germany (AGS): x/2 inhalable aerosol  
Germany (DFG): x/2 inhalable aerosol  
Hungary: x/1  
Ireland: x/1  
Italy: x/1  
New Zealand: x/1  
People's Republic of China: x/1  
Poland: x/1  
Portugal: x/1

Singapore: x/1  
Slovakia: x/1  
South Korea : x/1  
Spain: x/1  
Sweden: x/1  
Switzerland: x/1  
The Netherlands: x/1  
Turkey: x/1  
USA – NIOSH: x/1  
USA – OSHA: x/1  
United Kingdom: x/1

Limit value – Short Term

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

Argentina: x/3  
Australia: x/x  
Austria: x/2  
Belgium : x/2  
Canada-Ontario: x/3  
Canada-Québec: x/3  
Czech rep.: x/2  
Denmark: x/2  
European Union: x/2  
Finland: x/2(1)  
France: 0.5/2  
Germany (AGS): x/4 inhalable aerosol  
Germany (DFG): x/4 inhalable aerosol  
Hungary: x/2  
Ireland: x/2(1)  
Italy: x/2  
New Zealand: x/x  
People's Republic of China: x/3(1)  
Poland: x/2  
Portugal: x/2  
Singapore: x/x  
Slovakia: x/2  
South Korea : x/3  
Spain: x/2  
Sweden: x/3(1)  
Switzerland: x/2  
The Netherlands: x/2  
Turkey: x/2(1)  
USA – NIOSH: x/3(1)  
USA – OSHA: x/x  
United Kingdom: x/2

Remarks

European Union: Bold-type: Indicative Occupational Exposure Limit Values [2.3] and Limit Values for Occupational Exposure [4] ~ (for references see bibliography)  
Finland: (1) 15 minutes average value  
France: *Italic type*: Indicative satatutory limits value  
Germany (AGS): (1) 15 minutes average value  
Germany (DFG): STV 15 minutes value  
Ireland: (1) 15 minutes reference period  
People's Republic of China: (1) 15 minutes average value  
Sweden: (1) Short-term value, 15 minutes average value  
Turkey: (1) 15 minutes average value  
USA – NIOSH: (1) 15 minutes average value

- Substance: Orthophosphoric acid  
 DNEL  
 Local effects Long term Workers inhalation = 1 (mg/m<sup>3</sup>)  
 Local effects Long term Consumers inhalation = 0,73 (mg/m<sup>3</sup>)  
 Local effects Short term Workers inhalation = 2 (mg/m<sup>3</sup>)

## 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	cloudy liquid	
Colour	beige	
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	2.5 - 2.8	

Physical and chemical properties	Value	Determination method
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	1.15 ± 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 for 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	não determinada como considerada não relevante para a caracterização do produto	

## 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

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

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

(a) acute toxicity: Orthophosphoric acid: Ingestion-rat LD50 (mg/kg/bw 12h): 2600

Skin contact-LC50 rat/coniglio (mg/kg/bw 12h): 2740

Inhalation-rat LD50 (mg/l/4h): n.a.

(b) skin corrosion/irritation: Orthophosphoric acid: Corrosive

Orthophosphoric acid: Irritating

(c) serious eye damage/irritation: Orthophosphoric acid: Corrosive

Orthophosphoric acid: Irritating

(d) respiratory or skin sensitisation: Orthophosphoric acid: Not available

(e) germ cell mutagenicity: Orthophosphoric acid: Non-mutagenic

(f) carcinogenicity: Orthophosphoric acid: Non-carcinogenic

(g) reproductive toxicity: Orthophosphoric acid: Non-toxic for reproduction

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

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

(j) aspiration hazard: Orthophosphoric acid: 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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**11.2. Information on other hazards**

No data available.

**SECTION 12. Ecological information**

**12.1. Toxicity**

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Related to contained substances:

Orthophosphoric acid:

Endpoint: LC50-species: Fish = 75.1 mg/l-h Duration: 96

Endpoint: EC50-species: Daphnia magna > 100 mg/l-h Duration: 48

Endpoint: EC50-species: Algae > 100 mg/l-h Duration: 72

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:

Orthophosphoric acid:

Not readily biodegradable

**12.3. Bioaccumulative potential**

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Related to contained substances:

Orthophosphoric acid:

Not bioaccumulative

**12.4. Mobility in soil**

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Related to contained substances:

Orthophosphoric acid:

Not available

**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

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

Description of hazard statements set out in paragraph 3

H290 = May be corrosive to metals.

H314 = Causes severe skin burns and eye damage.

H318 = Causes serious eye damage.

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): irrielvant

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 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 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. Compliance with Regulation 2020/878.

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