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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 : ENDOZYM ACTIVE  
Product code: refer to sales department

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

Enzyme  
Sectors of use:  
Industrial Manufacturing[SU3], Manufacture of food products[SU4], Public domain (administration, education, entertainment, services, craftsmen)[SU22]  
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 OCEANIA PTY LTD  
113 Hanwood Avenue  
Hanwood  
NSW 2680 (Australia)  
Tel: +61 1300 704 971  
Email: aeboceania@aeb-group.com - Internet: www.aeb-group.com

Produced by  
AEB FRANCE Sarl - 10, rue du Stade - 68240 SIGOLSHEIM, France

### 1.4. Emergency telephone number

Centralino/Switchboard/Telefonzentrale: +61 1300 704 971

## SECTION 2. Hazards identification

### 2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:  
Pictograms:  
GHS08  
Hazard Class and Category Code(s):  
Resp. Sens. 1  
Hazard statement Code(s):  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled  
The product, if inhaled, can cause sensitization.

### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:  
Pictogram, Signal Word Code(s):  
GHS08 - Danger  
Hazard statement Code(s):  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled  
Supplemental Hazard statement Code(s):  
not applicable  
Precautionary statements:  
Prevention  
P261 - Avoid breathing dust.  
P284 - In case of inadequate ventilation wear respiratory protection.  
Response  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor....





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Contains:

PECTIN LYASE (PL), POLYGALACTURONASE (PG), PECTIN METHYLESTEREASE (PME), MALTODEXTRIN  
For professional use only.

For limited use in food processing: enological use

### 2.3. Other hazards

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

The use of this chemical agent involves the obligation of "risk assessment" by the employer in accordance with the provisions of Dlgs n. 81. April 9, 2008. Workers exposed to this chemical agent should not be subject to health surveillance if the results of the risk assessment show that, depending on the type and quantity of dangerous chemical agent and method and frequency of exposure to the agent, there is only a "moderate Risk" for the health and safety of workers and that the measures laid down in the Decree are sufficient to reduce the risk.

## 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 | Classification      | Index | CAS       | EINECS    | REACH |
|-------------------------------|---------------|---------------------|-------|-----------|-----------|-------|
| PECTINE LYASE (PL)            | > 1 <= 40%    | Resp. Sens. 1, H334 |       | 9033-35-6 | 232-894-5 |       |
| POLYGALACTURONASE (PG)        | > 1 <= 40%    | Resp. Sens. 1, H334 |       | 9032-75-1 | 232-885-6 |       |
| PECTINE METHYLESTEREASE (PME) | > 1 <= 40%    | Resp. Sens. 1, H334 |       | 9025-98-3 | 232-807-0 |       |

## 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

If experiencing respiratory symptoms: Call a POISON CENTER or doctor....

## 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.

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:

Rapidly recover the product, wear a mask and protective clothing

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**

In residential areas do not use on large surfaces.

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  $T < 20^{\circ}\text{C}$ , away from heat sources and direct exposure to sunlight.

## **7.3. Specific end use(s)**

Industrial Manufacturing:

Handle with extreme caution.

Store in a well ventilated place away from heat sources.

Manufacture of food products:

Handle with care.

Store in a clean, dry, ventilated area away from heat and direct sunlight.



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Keep container tightly closed.

Public domain (administration, education, entertainment, services, craftsmen):

Handle with care. Store in a ventilated area and away from heat, keep the container tightly closed.

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

No data available.

### 8.2. Exposure controls



Appropriate engineering controls:

Industrial Manufacturing:

No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

Manufacture of food products:

No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

Public domain (administration, education, entertainment, services, craftsmen):

No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

Individual protection measures:

(a) Eye / face protection

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

(b) Skin protection

(i) Hand protection

When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)

(ii) Other

When handling the pure product wear full protective skin clothing.

(c) Respiratory protection

Use adequate protective respiratory equipment (EN 141)

(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                                   | micro white granules      |                      |
| Odour                                        | odorless                  |                      |
| Odour threshold                              | not determined            |                      |
| pH                                           | 6,0 ± 0,5 (20°C; sol. 1%) |                      |
| Melting point/freezing point                 | not relevant              |                      |
| Initial boiling point and boiling range      | not relevant              |                      |
| Flash point                                  | irrelevant                | ASTM D92             |
| Evaporation rate                             | irrelevant                |                      |
| Flammability (solid, gas)                    | irrelevant                |                      |
| Upper/lower flammability or explosive limits | irrelevant                |                      |
| Vapour pressure                              | irrelevant                |                      |
| Vapour density                               | irrelevant                |                      |
| Relative density                             | 0,35-0,6 (20°C)           |                      |
| Solubility                                   | not relevant              |                      |
| Water solubility                             | not relevant              |                      |



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| Physical and chemical properties       | Value          | Determination method |
|----------------------------------------|----------------|----------------------|
| Partition coefficient: n-octanol/water | not determined |                      |
| Auto-ignition temperature              | irrelevant     |                      |
| Decomposition temperature              | irrelevant     |                      |
| Viscosity                              | not relevant   |                      |
| Explosive properties                   | irrelevant     |                      |
| Oxidising properties                   | irrelevant     |                      |

## 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

Exposure to heat

### 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 toxicological effects

ATE(mix) oral = ∞

ATE(mix) dermal = ∞

ATE(mix) inhal = ∞

(a) acute toxicity: based on available data, the classification criteria are not met.

(b) skin corrosion/irritation based on available data, the classification criteria are not met.

(c) serious eye damage/irritation: based on available data, the classification criteria are not met.

(d) respiratory or skin sensitization: The product, if inhaled, can cause sensitization.

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

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

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

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

(i) specific target organ toxicity (STOT) repeated exposure based on available data, the classification criteria are not



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met.

(i) aspiration hazard: based on available data, the classification criteria are not met.

## **SECTION 12. Ecological information**

### **12.1. Toxicity**

Use according to good working practices and avoid to disperse the product into the environment.

### **12.2. Persistence and degradability**

No data available.

### **12.3. Bioaccumulative potential**

No data available.

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

No data available.

### **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 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**

Leg. 3/2/1997 n. 52 (Classification, packaging and labeling of dangerous substances). Decree No. 14/3/2003. 65 (Classification, packaging and labeling of dangerous substances). Leg. 2/2/2002 n. 25 (risks related to chemical agents at work). Ministerial Decree Jobs 26/02/2004 (occupational exposure limits); DM 04/03/2007 (Implementation of Directive no. 2006/8/EC). Regulation (EC) n. 1907/2006 (REACH) Regulation (EC) n. 1272/2008 (CLP), Regulation (EC) n.790/2009.D.Lgs. September 21, 2005 n. 238 (Seveso Directive Ter).

#### **15.2. Chemical safety assessment**

No chemical safety assessment was carried out by the supplier

### **SECTION 16. Other information**

#### **16.1. Other information**

Description of hazard statements set out in paragraph 3

H334 = May cause allergy or asthma symptoms or breathing difficulties if inhaled

Classification based on data of all mixture components

Main normative references:

Directive 1999/45/EC.

Directive 2001/60/EC.

Regulation 1272/2008/EC.

Regulation 2010/453/EC.

This msds was made in good faith by AEB 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.

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Changes to the previous edition: conformity Reg. 830