SAFETY DATA SHEET

ENDOZYM AGP 120

Issued on 09/01/2023 - Rel. # 3 on 09/01/2023

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In conformity to Regulation (EU) 2020/878

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

1.1. Product identifier

Product name: ENDOZYM AGP 120 Product code: refer to sales department.

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

Enzyme preparations
Sectors of use:
Manufacture of food products[SU4]
Product category:
Technological adjuvant for beer 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 France Sarl

Siège social: 10 rue du stade 68240 Kaysersberg-Vignoble, France

Tél. +33 (0)389.47.32.33 - Fax +33 (0)389.47.33.34

E-mail: infofrance@aeb-group.com - Internet: www.aeb-group.com

Produced by

AEB FRANCE Sarl - 10, rue du Stade - 68240 KAYSERSBERG-VIGNOBLE, France

1.4. Emergency telephone number

ORFILA (INRS): +33 (0)1 45 42 59 59 24 heures sur 24 et 7 jours sur 7

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.



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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

Precautionary statements:

Prevention

P261 - Avoid breathing vapours/spray.

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 a doctor.

Contains:

Glucoamylase, Amylase, Pullulanase

Ingredients: Glycerol, glucoamylase, glucose, amylase, pullulanase, maltodextrin, sodium chloride, sorbitol, potassium sorbate, ethanol, sodium benzoate, water gs to 100.

Food use, brewery use. Not intended for the final consumer. In accordance with current regulations on the specific matter. Only for industrial use.

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

The use of this chemical agent implies the obligation of the "risk assessment" by the employer according to the provisions of Legislative Decree April 9, 2008 no. 81 and subsequent amendments. If the results of the risk assessment demonstrate that, in relation to the type, quantity, methods and frequency of exposure, there is only a low risk for the safety and irrelevant for the health of the workers and that the measures referred to in paragraph 1 of Legislative Decree April 9, 2008 no. 81 are sufficient to reduce the risk, the provisions of articles 225, 226, 229, 230 of the same Legislative Decree do not apply

SECTION 3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements



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Substance	Concentration[w/w]	Classification	IUB	CAS	EINECS	REACh
Glycerol substance for which there are Community workplace exposure limits	>= 25 < 50%			56-81-5	200-289-5	
Glucoamylase	>= 10 < 25%	Resp. Sens. 1, H334	3.2.1.3	9032-08-0	232-877-2	
Amylase	>= 3 < 5%	Resp. Sens. 1, H334	3.2.1.1	9001-19-8	232-588-1	
Pullulanase	>= 1 < 2,5%	Resp. Sens. 1, H334	3.2.1.41	9075-68-7	232-983-9	

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 thorougly 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

No data available.

4.3. Indication of any immediate medical attention and special treatment needed

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

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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:

Rapidly recover the product, wear a mask and protective clothing (for specifications refer to section 8.2. SDS) Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert materia or sucked 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

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7.1. Precautions for safe handling

Avoid contact and inhalation of vapors
Handle the product after consulting all other sections of this safety data sheet.
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 its original sealed packaging away from light in a cool dry place free of odors, at a temperature < 20°C. Do not freeze. Batch number (BN) and Best before date (EXP): See Barcode.

7.3. Specific end use(s)

Manufacture of food products:

Store its original sealed packaging away from light in a cool dry place free of odors, at a temperature < 20°C. Do not freeze. Batch number (BN) and Best before date (EXP): See Barcode.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Related to contained substances:

Glycerol:

Limit value - Eight hours

Australia 10 (1) mg/m3

Belgium 10 mg/m3

Canada - Ontario 10 mg/m3

Canada - Quebec 10 mg/m3

Finland 20 mg/m3

France 10 mg/m3

Germany (AGS) 200 (1) mg/m3

Germany (DFG) 200 (1) mg/m3

Ireland 10 mg/m3

New Zealand 10 (1) mg/m3

Poland 10 mg/m3

Singapore 10 mg/m3

South Africa Mining 10 ppm

South Korea 10 mg/m3

Spain 10 mg/m3

Switzerland 50 inhalable aerosols mg/m3

USA - OSHA 15 (1) mg/m3

5 (2) mg/m3

United Kingdom 10 mg/m3

Limit value - Short-term

Germany (AGS) 400 (1)(2) mg/m3

Germany (DFG) 400 (1)(2) mg/m3

Switzerland 100 inhalable aerosols mg/m3

Remarks

Australia (1) This value refers to inhalable dust containing no asbestos and < 1% crystalline silica.

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Germany (AGS) (1) Inhalable fraction (2) Average value 15 minutes

Germany (DFG) (1) Inhalable fraction (2) Average value 15 minutes

New Zealand (1) The value for inhalable dusts containing no asbestos and less than 1% free silica.

USA - OSHA (1) Inhalable fraction (2) Breathable fraction

- Substance: Glycerol

DNEL

Systemic effects Long term Workers inhalation = 56 (mg/m3)

PNEC

Sweet water = 0.885 (mg/l)

sediment Sweet water = 3,3 (mg/kg/sediment)

Sea water = 0.088 (mg/I)

sediment Sea water = 0,33 (mg/kg/sediment)

intermittent emissions = 8,85 (mg/l)

ground = 0,141 (mg/kg ground)

- Substance: Glucoamylase

PNEC

Sweet water = 0,1037 (mg/l)

Sea water = $0.01037 \, (mg/l)$

STP = 65 (mg/l)

ground = 0.0124 (mg/kg ground)

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

Use adequate protective respiratory equipment (EN 14387:2008)

(d) Thermal hazards

No hazard to report



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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	Viscous liquid	
Colour	Beige / Brown	
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	
Melting point/freezing point	not determined as considered not relevant for the characterization of the product	
Boiling point or initial boiling point and boiling range	not determined as considered not relevant for the characterization of the product	
Flammability	not determined as considered not relevant for the characterization of the product	
Lower and upper explosion limit	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	
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	
рН	4-5,5	
Kinematic viscosity	not determined as considered not relevant for the characterization of the product	
Solubility	not determined as considered not relevant for the characterization of the product	
Water solubility	not determined as considered not relevant for the characterization of the product	
Partition coefficient n-octanol/water (log value)	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	
Density and/or relative density	0.95-1.3	
Relative vapour density	not determined as considered not relevant for the characterization of the product	
Particle characteristics	not determined as considered not relevant for the characterization of the product	

9.2. Other information



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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

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

Related to contained substances:
Glycerol:
Humidity
Glucoamylase:

Pullulanase:

Not available

Not available Not available

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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: Glycerol: Ingestion - LD50 rat (mg / kg / 24h bw): not available

Skin contact - LC50 rat / rabbit (mg / kg / 24h bw): not available

Inhalation - LD50 rat (mg / I / 4h): not available

Glucoamylase: Ingestion - LD50 rat (mg / kg / 24h bw): nd Skin contact - LC50 rat / rabbit (mg / kg / 24h bw): nd

Inhalation - LD50 rat (mg / I / 4h): nd

Amylase: Ingestion - LD50 rat (mg / kg / 24h bw): n.a. Skin contact - LC50 rat / rabbit (mg / kg / 24h bw): n.a.

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

Pullulanase: Ingestion - LD50 rat (mg / kg / 24h bw): not available Skin contact - LC50 rat / rabbit (mg / kg / 24h bw): not available

Inhalation - LD50 rat (mg / I / 4h): not available

(b) skincorrosion/irritation: Glycerol: Not classified Glycoamylase: No known significant data

Amylase: Not available Pullulanase: Unavailable Glycerol: Not classified

Glucoamylase: No known significant effects or critical hazards

Amylase: Not available

Pullulanase: It can irritate the skin.

(c) serious eye damage/irritation: Glycerol: Not classified

Glucoamylase: No known significant data

Amylase: Not available Pullulanase: Unavailable Glycerol: Not classified

Glucoamylase: No known significant effects or critical hazards

Amylase: Not available

Pullulanase: May cause temporary eye irritation.

(d) respiratoryorskinsensitisation: The product, if inhaled, can cause sensitization.

Glycerol: Not classified

Glucoamylase: Respiratory sensitizer

Amylase: Respiratory sensitizer: Once sensitized, a severe allergic reaction may occur upon subsequent exposure to

very low levels.



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Pullulanase: Respiratory sensitizer

(e) germ cell mutagenicity: Glycerol: Not classified

Glucoamylase: Not classified Amvlase: Not available Pullulanase: Not classified

(f) carcinogenicity: Glycerol: Not classified

Glucoamylase: Not classified Amylase: Not available Pullulanase: Unavailable

(g) eproductivetoxicity: Glycerol: Not classified - Does not affect fertility. Non-toxic for development.

Glucoamylase: Not classified Amylase: Not available Pullulanase: Not classified

(h) specific target organ toxicity (STOT) single exposure: Glycerol: Not classified Ingestion may cause nausea, vomiting and avoidance.

Glucoamylase: Unavailable Amylase: Not available Pullulanase: Unavailable

(i) specific target organ toxicity (STOT) repeated exposureGlycerol: Not classified

Glucoamylase: Once sensitised, a strong allergic reaction may occur when subsequently exposed to very low levels.

Amylase: Not available Pullulanase: Not classified

(j) aspiration hazard: Glycerol: Inhalation: May cause irritation to the respiratory tract and other mucous membranes.

Glucoamylase: May cause allergy or asthma symptoms or breathing difficulties if inhaled

Amylase: May cause sensitization by inhalation.

Pullulanase: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

11.2. Information on other hazards

No data available.

SECTION 12. Ecological information

12.1. Toxicity

Related to contained substances:

Glycerol:

Acute aquatic toxicity: Not classified Chronic aquatic toxicity: Not classified

LC50-96 h - fish 54000 mg / I Oncorhynchus mykiss EC50-48 h - Daphnia 1955 mg / I

EC50-72 h - algae 3200 mg / I Entosiphon sulcatum

Glucoamylase:

Acute toxicity - fish LC50 (mg/I/96h): NA

Acute toxicity - crustaceans EC50 (mg/I/48h): NA Acute toxicity to algae ErC50 (mg / I / 72-96h): NA

Chronic toxicity - fish NOEC (mg / I): NA

Chronic toxicity - crustaceans NOEC (mg / I): NA



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Chronic toxicity to algae NOEC (mg / I): NA

Amylase:

Acute toxicity - LC50 fish (mg/I/96h): n.a.

Acute toxicity - crustaceans EC50 (mg/I/48h): n.a. Acute toxicity algae ErC50 (mg/I/72-96h): n.a.

Chronic toxicity - NOEC fish (mg/l): n.a.

Chronic toxicity - crustaceans NOEC (mg / I): n.a.

Chronic toxicity NOEC algal (mg / l): n.a.

Pullulanase:

Acute toxicity - fish LC50 (mg/I/96h): not available

Acute toxicity - crustaceans EC50 (mg/I/48h): not available Acute toxicity to algae ErC50 (mg/I/72-96h): not available

Chronic toxicity - fish NOEC (mg / I): not available

Chronic toxicity - crustaceans NOEC (mg / I): not available

Chronic toxicity to algae NOEC (mg / l): not available

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

12.2. Persistence and degradability

Related to contained substances:

Glycerol:

Persistence and degradability Readily biodegradable.

COD value 1.16 g O2 / g substance

ThOD (gO2/g) 1.217 g O2/g substance

BOD (% of ThOD) 71% DTO

Glucoamylase:

readliy biodegradable

Amylase:

Not available

Pullulanase:

Easily biodegradable

12.3. Bioaccumulative potential

==============

Related to contained substances:

Glycerol:

Log P octanol / water at 20 $^{\circ}$ C -1.76 - 2.6

Kow log -1.76 Bioaccumulative potential

Not expected to bioaccumulate.

Glucoamylase:

unavailable

Amylase:

Not available



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Pullulanase:

This product does not cause bioaccumulation

12.4. Mobility in soil

Related to contained substances:

Glycerol:

ground Product that penetrates easily into the ground.

Glucoamylase:

unavailable

Amilasi

Not available

Pullulanase:

Unavailable.

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).

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	in comornity to regulation (EO) 2020/070
	14.2. UN proper shipping name
None	
	14.3. Transport hazard class(es)
None	
	14.4. Packing group
None	14.4. Facking group
None	
	14.5. Environmental hazards

14.6. Special precautions for user

No data available.

None

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 the substances contained (Annex XVII EC Reg. 1907/2006): not applicable Substances in Candidate list (art. 59 EC Reg. 1907/2006): the product does not contain SVHC in percentage = a 0.1 %.

Regulation (EU) 528/2012: see point 2.2 Regulation (EU) 1169/2011: see point 2.2 Regulation (EC) 1332/2008; see point 2.2 REGULATION (EU) No 1357/2014 - waste: HP13 - Sensitising

15.2. Chemical safety assessment

Chemical safety assessment was carried out by the supplier

SECTION 16. Other information

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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 and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled Classification procedure: Calculation method

Main normative references:

Reg. (CE) n. 1907 del 18/12/06 REACH (Registration, Evaluation and Authorisation of CHemicals) et seg.

Reg. (CE) 1272/2008 CLP (Classification Labelling and Packaging) et seq.

Directive 2012/18/EU (on the control of major-accident hazards involving dangerous substances) et seq.

Regulation (UE) 1169/2011 (on the provision of food information to consumers)

Regulation (EU) 1332/2008 (Food enzymes)

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

SU: Sector of Use



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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: global update - 2.2 - 3.2 - 7.2 - 7.3 - 8.2 - 9.1