SAFETY DATA SHEET

ENDOZYM Cultivar

Issued on 12/04/2023 - Rel. # 3 on 12/04/2023

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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 Cultivar 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

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



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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 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:

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):

EUH208 - Contains Cellulase. May produce an allergic reaction.

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.

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P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or a doctor.

Contains:

Pectin lyase, polygalacturonase, cellulase.

Ingredients: Maltodextrin, potassium chloride, pectin lyase, polygalacturonase, ammonium sulphate, cellulase, potassium sorbate.

Food use, oenological use. Not intended for the final consumer. In accordance with current regulations on the specific matter. For industrial use only.

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

Substance	Concentration[w/w]	Classification	IUB N°	CAS	EINECS	REACh
Potassium chloride substance for which there are Community workplace exposure limits	>= 0,5 < 3%			7447-40-7	231-211-8	
Pectin lyase	>= 0,5 < 2,5%	Resp. Sens. 1, H334	4.2.2.10	9033-35-6	232-894-5	
Polygalacturonase	>= 0,2 < 2,5%	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Resp. Sens. 1, H334; STOT SE 3, H335	3.2.1.15	9032-75-1	232-885-6	
Cellulase	>= 0,01 < 1%	Resp. Sens. 1, H334	3.2.1.4	9012-54-8	232-734-4	

SECTION 4. First aid measures

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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).:

Rinse immediately under running water for 10 to 15 minutes, keeping the eyelid open. Remove contact lenses if worn and if they can be easily removed.

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.

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

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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:

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 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

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 in 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.

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7.3. Specific end use(s)

Manufacture of food products:

Store in 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:

Potassium chloride: Limit value - Eight hours

Latvia: 5 mg/m3

- Substance: Potassium chloride

Systemic effects Long term Workers inhalation = 1064 (mg/m3)

Systemic effects Long term Workers dermal = 303 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 273 (mg/m3)

Systemic effects Long term Consumers dermal = 182 (mg/kg bw/day)

Systemic effects Long term Consumers oral = 91 (mg/kg bw/day)

Systemic effects Short term Workers inhalation = 5320 (mg/m3)

Systemic effects Short term Workers dermal = 910 (mg/kg bw/day)

Systemic effects Short term Consumers inhalation = 1365 (mg/m3)

Systemic effects Short term Consumers dermal = 910 (mg/kg bw/day)

Systemic effects Short term Consumers oral = 455 (mg/kg bw/day)

PNEC

Sweet water = 0.1 (mg/I)

Sea water = 0,1 (mg/I)

intermittent emissions = 1 (mg/l)

STP = 10 (mg/l)

- Substance: Pectin lyase

PNEC

Sweet water = 0.052 (mg/I)

Sea water = 0,00052 (mg/I)

STP = 65 (ma/l)

ground = 0.001 (mg/kg ground)

- Substance: Polygalacturonase

PNEC

Sweet water = 0.0237 (mg/I)

Sea water = 0.0237 (mg/I)

intermittent emissions = 0,237 (mg/l)

STP = 65 (mg/l)

ground = 0.00376 (mg/kg ground)

- Substance: Cellulase

PNEC

Sweet water = 0.0237 (mg/I)

Sea water = 0.0237 (mg/l)

intermittent emissions = 0,237 (mg/l)



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STP = 65 (mg/I)ground = 0.00376 (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

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	Fine to semi-granular powder	
Colour	Light beige to beige	
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	



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Physical and chemical properties	Value	Determination method
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 (solution 10%)	
Kinematic viscosity	not determined as considered not relevant for the characterization of the product	
Solubility	soluble in water	
Water solubility	miscible in all proportions	
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	not determined as considered not relevant for the characterization of the product	
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

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

Related to contained substances:

Potassium chloride:

The product is not reactive under normal conditions of use, storage and transport.

Pectin lyase:

The product is non-reactive under normal conditions of use, storage and transport.

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Polygalacturonase: Non pertinent.
Cellulase: Not relevant.
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
======================================
None under recommended storage and handling conditions.
Pectin lyase: None under recommended storage and handling conditions.
Polygalacturonase: None.
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

(a) acute toxicity: Potassium chloride: Ingestion - DL50 rat (mg / kg / 24h pc): 3020 Contact avec la peau - CL50 rat / lapin (mg / kg / 24h pc): n.d.



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Inhalation - DL50 rat (mg / I / 4h): n.d.

Pectin lyase: 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

Polygalacturonase: 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

Cellulase: 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.

(b) skincorrosion/irritation: Potassium chloride: Unclassified

Pectin lyase: Not corrosive Polygalacturonase: Unavailable

Cellulase: Unavailable

Potassium chloride: Unclassified Pectin lyase: Not irritating Polygalacturonase: Irritating Cellulase: Unavailable

(c) serious eye damage/irritation: Potassium chloride: Unclassified

Pectin lyase: Not corrosive Polygalacturonase: Unavailable

Cellulase: Unavailable

Potassium chloride: Unclassified Pectin lyase: Not irritating Polygalacturonase: Irritating Cellulase: Unavailable

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

Potassium chloride: Unclassified

Pectin lyase: Sensitizer: May cause sensitization by inhalation. Polygalacturonase: May cause sensitization by inhalation

Cellulase: May cause sensitization by inhalation

(e) germ cell mutagenicity: Potassium chloride: Unclassified

Pectin lyase: Unavailable Polygalacturonase: Unavailable

Cellulase: Unavailable

(f) carcinogenicity: Potassium chloride: Unclassified

Pectin lyase: Unavailable
Polygalacturonase: Unavailable

Cellulase: Unavailable

(g) eproductivetoxicity: Potassium chloride: Unclassified

Pectin lyase: Unavailable Polygalacturonase: Unavailable

Cellulase: Unavailable

(h) specific target organ toxicity (STOT) single exposure: Potassium chloride: Unclassified

Pectin lyase: Unavailable Polygalacturonase: Unavailable

Cellulase: Unavailable

(i) specific target organ toxicity (STOT) repeated exposurePotassium chloride: Unclassified

Pectin lyase: Once sensitized, a severe allergic reaction can occur upon subsequent exposure to very low levels.

Polygalacturonase: Unavailable

Cellulase: Once sensitized, subsequent exposure to very low levels can trigger a strong allergic reaction.



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(j) aspiration hazard: Potassium chloride: Unclassified

Pectin lyase: Unavailable Polygalacturonase: Unavailable

Cellulase: May cause breathing difficulties if inhaled

11.2. Information on other hazards

No data available.

SECTION 12. Ecological information

12.1. Toxicity

Related to contained substances:

Potassium chloride:

Acute toxicity - fish LC50 (mg / I / 96h): 880 (Pimephales promelas; (OECD method 203))
Acute toxicity - crustaceans EC50 (mg / I / 48h): 440 (Daphniamagna; (OECD method 202))
Acute toxicity algae EC50 (mg / I / 72h):> 100 (Desmodesmus subspicatus; (method OECD 201))
Chronic toxicity - fish NOEC (mg / I): nd Chronic toxicity - crustaceans NOEC (mg / I): nd
Chronic toxicity algae NOEC (mg / I / 72h):> 100 (Desmodesmus subspicatus; (method OECD 201))

Pectin Iyase:

Acute toxicity - fish LC50 (mg / I / 96h): not available
Acute toxicity - crustaceans EC50 (mg/l/48h) [1]: 2000 mg/l
Acute toxicity - crustaceans EC50 (mg/l/48h) [2]: 212 mg/l
Acute toxicity algae ErC50 (mg / I / 72-96h): not available
Chronic toxicity - fish NOEC (mg / I): not available
Chronic toxicity - shellfish NOEC (mg / I): not available
Chronic toxicity algae NOEC (mg / I): not available

Polygalacturonase:

Acute toxicity - fish LC50 (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 - fish NOEC (mg / I): n.a Chronic toxicity - crustaceans NOEC (mg / I): n.a Chronic toxicity algae NOEC (mg / I): n.a

Cellulase:

Acute toxicity - fish LC50 (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 - fish NOEC (mg / I): n.a.
Chronic toxicity - crustaceans NOEC (mg / I): n.a.
Chronic toxicity algae NOEC (mg / I): n.a.

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



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12.2. Persistence and degradability

=======================================
Related to contained substances:
Potassium chloride:
It does not apply to inorganic substances.
Pectin lyase:
Readiily biodegradable
Polygalacturonase:
Unavailable
Officiality
Cellulase:
Unavailable
12.3. Bioaccumulative potential
=======================================
Related to contained substances:
Potassium chloride:
It does not apply to inorganic substances.
Pectin lyase:
not available
Polygalacturonase:
Unavailable
Collulado
Cellulase: Unavailable
Ullavallable
12.4 Mobility in soil
12.4. Mobility in soil
Related to contained substances:
Potassium chloride:
It must have been very mobile in the ground.
Temateriate book vory mobile in the ground.
Pectin lyase:
not available
Polygalacturonase:
Unavailable

Cellulase: Unavailable

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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).

14.2. UN proper shipping name

None

14.3. Transport hazard class(es)

None

14.4. Packing group

None

14.5. Environmental hazards

None

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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 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) 1169/2011: see point 2.2 Regulation (EU) 1308/2013; see point 2.2

Regulation (EC) 1332/2008; see point 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 from previous revision: 1.2. Relevant identified uses of the substance or mixture and uses advised against - 2.2. Label elements - 3.2 Composition/information on ingredients - Mixtures - 7. Handling and storage- 8.2 Exposure controls- 9.1 Information on basic physical and chemical properties - 10.Stability and reactivity- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 -12.Ecological information- 15- Regulatory information- 16. Other information

Description of hazard statements set out in paragraph 3

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

H315 = Causes skin irritation.

H319 = Causes serious eye irritation.

H335 = May cause respiratory irritation.

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

AEB IMPROVEMENT THROUGH BIOTECHNOLOGY

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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.

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

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: 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 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

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 raw material supplier
- GESTIS International Limit Value: http://limitvalue.ifa.dguv.de

This msds was made in good faith by technical Office on the basis of the information available at the date of the last



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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.

*** this tab annuls and replaces any previous edition.

Changes to the previous edition: General update.