

## ENDOZYM Thiol

Issued on 03/05/2024 - Rel. # 5 on 03/05/2024

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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 Thiol 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

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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.

2.1.2 Additional information:

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

## 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

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Pictogram, Signal Word Code(s):
GHS08 - Danger
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Hazard statement Code(s): H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary statements: Prevention P261 - Avoid breathing apours/spray.





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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:

pectin lyases, polygalacturonase

Ingredients : Potassium chloride, maltodextrin, glycerol, pectin lyases, polygalacturonase, ammonium sulphate, potassium sorbate, water qs to 100.

Food use, oenological 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

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

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

Substance	Concentration[ w/w]	Classification	IUB N°	CAS	EINECS	REACh
potassium chloride substance for which there are Community workplace exposure limits	>= 5 < 10%			7447-40-7	231-211-8	
Glycerol substance for which there are Community workplace exposure limits	>= 3 < 5%			56-81-5	200-289-5	



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Substance	Concentration[ w/w]	Classification	Index	CAS	EINECS	REACh
pectin lyases	>= 3 < 5%	Resp. Sens. 1, H334	4.2.2.10	9033-35-6	232-894-5	
polygalacturonase	>= 2,5 < 3%	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	

## 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) .:

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.



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### 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. Privide 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



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## SECTION 7. Handling and storage

## 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 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.

## 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/m<sup>3</sup>

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



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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. 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

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- Substance: potassium chloride
DNEL
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/l)
Sea water = 0.1 (mg/l)
STP = 10 (mg/l)
- 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/l)
sediment Sea water = 0,33 (mg/kg/sediment)
ground = 0,141 (mg/kg ground)
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- Substance: pectin lyases



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PNEC

Sweet water = 0,052 (mg/l) Sea water = 0,00052 (mg/l) STP = 65 (mg/l) ground = 0,001 (mg/kg ground)

- Substance: polygalacturonase PNEC Sweet water = 0,0237 (mg/l) Sea water = 0,0237 (mg/l) STP = 65 (mg/l) 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





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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	Viscous liquid			
Colour	brune to 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 - 6.5 (20°C)			
Kinematic viscosity	not determined as considered not relevant for the characterization of the product			
Solubility	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	0.950 - 1.300			
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			

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### 9.2. Other information

### 9.2.1 Information with regard to physical hazard classes

Irrilevant

### 9.2.2 Other safety characteristics

Irrilevant

# 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.

Glycerol: Reacts with: Strong acids. Strong foundations

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

polygalacturonase: Non pertinent.

### 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:



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potassium chloride: None under recommended storage and handling conditions.

Glycerol: Humidity

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



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pectin lyases: Not corrosive polygalacturonase: Unavailable potassium chloride: Unclassified Glycerol: Not classified pectin lyases: Not irritating polygalacturonase: Irritating

(c) serious eye damage/irritation: potassium chloride: Unclassified Glycerol: Not classified pectin lyases: Not corrosive polygalacturonase: Unavailable potassium chloride: Unclassified Glycerol: Not classified pectin lyases: Not irritating polygalacturonase: Irritating

(d) respiratoryorskinsensitisation: The product, if inhaled, can cause sensitization.
 potassium chloride: Unclassified
 Glycerol: Not classified
 pectin lyases: Sensitizer: May cause sensitization by inhalation.
 polygalacturonase: May cause sensitization by inhalation

(e) germ cell mutagenicity: potassium chloride: Unclassified Glycerol: Not classified pectin lyases: Unavailable polygalacturonase: Unavailable

(f) carcinogenicity: potassium chloride: Unclassified Glycerol: Not classified pectin lyases: Unavailable polygalacturonase: Unavailable

(g) eproductivetoxicity: potassium chloride: Unclassified Glycerol: Not classified - Does not affect fertility. Non-toxic for development. pectin lyases: Unavailable polygalacturonase: Unavailable

(h) specific target organ toxicity (STOT) single exposure: potassium chloride: Unclassified Glycerol: Not classified Ingestion may cause nausea, vomiting and avoidance. pectin lyases: Unavailable polygalacturonase: Unavailable



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(i) specific target organ toxicity (STOT) repeated exposurepotassium chloride: Unclassified Glycerol: Not classified pectin lyases: Once sensitized, a severe allergic reaction can occur upon subsequent exposure to very low levels. polygalacturonase: Unavailable

(j) aspiration hazard: potassium chloride: Unclassified Glycerol: Inhalation: May cause irritation to the respiratory tract and other mucous membranes. pectin lyases: Unavailable polygalacturonase: Unavailable

## 11.2. Information on other hazards

No data available.

11.2.1. Endocrine disrupting properties

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

## **SECTION 12. Ecological information**

### 12.1. Toxicity

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 Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1

pectin lyases: 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



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Chronic toxicity - shellfish NOEC (mg / I): not available Chronic toxicity algae NOEC (mg / I): not available Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1

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 Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1

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

## 12.2. Persistence and degradability

Related to contained substances: potassium chloride: It does not apply to inorganic 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

pectin lyases: Readiily biodegradable

polygalacturonase: Unavailable



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### 12.3. Bioaccumulative potential

Related to contained substances: potassium chloride: It does not apply to inorganic substances.

Glycerol:

Log P octanol / water at 20 ° C -1.76 - 2.6 Kow log -1.76 Bioaccumulative potential Not expected to bioaccumulate.

pectin lyases: not available

polygalacturonase: Unavailable

### 12.4. Mobility in soil

Related to contained substances: potassium chloride: It must have been very mobile in the ground.

Glycerol: ground Product that penetrates easily into the ground.

pectin lyases: not available

polygalacturonase: 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

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100



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#### 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



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## 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) 1333/2008; 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

No chemical safety assessment was carried out by the supplier

## SECTION 16. Other information

### 16.1. Other information

Points modified from previous revision:- 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

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



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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 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

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

Changes to the previous edition: general update.