# SAFETY DATA SHEET



# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation

of the mixture

BioZyme EX3

Registration number

Synonyms None.

Part Number LS-7200 series, (Formula: LB-7200/1)

Issue date 29-September-2022

Version number 0°

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

Identified usesCleaning agent.Uses advised againstNone known.

1.3. Details of the supplier of the safety data sheet

Supplier

Company name Celeste Industries

Address 400 Thames Valley Park Drive

Reading

Berkshire, RG6 1PT, England

**Telephone** +44 (0) 1189 637930

Manufacturer

Company name Celeste Industries Corporation

Address 8007 Industrial Park Rd

Easton, Maryland 21601 (USA)

Telephone +1-410-822-5775
Email info@celestecorp.com

In Case of Emergency CHEMTREC (24 hours) within USA and CANADA 1-800-424-9300

Outside USA and Canada (collect call accepted) 1-703-527-3883

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

### Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

### 2.2. Label elements

### Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms None.

Signal word None.

**Hazard statements** The mixture does not meet the criteria for classification.

**Precautionary statements** 

PreventionNot assigned.ResponseNot assigned.StorageNot assigned.DisposalNot assigned.

Supplemental label information EUH208 - Contains 1,2-Benzisothiazol-3(2H)-one. May produce an allergic reaction.

EUH210 - Safety data sheet available on request.

2.3. Other hazards This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII.

# **SECTION 3: Composition/information on ingredients**

**Mixture** 

Material name: BioZyme EX3

SDS GREAT BRITAIN

General information CAS-No. / EC No. REACH Registration No. **Notes Chemical name** Index No. Octylphenol polyethoxyethanol < 0.1 9036-19-5 Classification: Acute Tox. 4;H302, Skin Irrit. 2;H315, Eye Dam. 1;H318, Aquatic Acute 1:H400(M=10), Aquatic Chronic 1:H410 < 0.1 2634-33-5 1,2-Benzisothiazol-3(2H)-one 613-088-00-6 220-120-9 Classification: Acute Tox. 4;H302, Skin Irrit. 2;H315, Eye Dam. 1;H318, Skin Sens. 1;H317, Aquatic Acute 1;H400, Aquatic Chronic 2;H411

99 - < 100 Other components below reportable

levels

### List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

#: This substance has been assigned Union workplace exposure limit(s).

**Composition comments** 

The full text for all H-statements is displayed in section 16. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### **SECTION 4: First aid measures**

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

4.2. Most important symptoms and effects, both acute and delayed

Exposure may cause temporary irritation, redness, or discomfort.

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

Treat symptomatically.

## **SECTION 5: Firefighting measures**

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures

Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

#### **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Wear appropriate personal protective equipment.

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS. For emergency responders

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

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6.4. Reference to other

sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13.

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the

## **SECTION 7: Handling and storage**

7.1. Precautions for safe

handling

Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

SDS).

7.3. Specific end use(s)

Cleaning agent.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring

procedures

Follow standard monitoring procedures.

Derived no effect levels

(DNELs)

Not available.

Predicted no effect

concentrations (PNECs)

Not available.

8.2. Exposure controls

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Individual protection measures, such as personal protective equipment

**General information** 

Personal protection equipment should be chosen according to the CEN standards and in

discussion with the supplier of the personal protective equipment.

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Wear appropriate chemical resistant gloves. - Hand protection

- Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

**Environmental exposure** 

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

## **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

**Appearance** 

Physical state Liauid. Liquid. **Form** Colour Opaque. None. Odour

**Odour threshold** Not available.

7 - 8

Melting point/freezing point 0 °C (32 °F) Initial boiling point and boiling 100 °C (212 °F)

range

Non-flammable. Flash point **Evaporation rate** Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits Explosive limit - lower (%) Non-flammable.

Material name: BioZyme EX3 SDS GREAT BRITAIN Explosive limit - upper

(%)

Non-flammable.

3.17 kPa @ 25°C Vapour pressure

Property has not been measured. Vapour density

0.95 - 1.05Relative density

Solubility(ies)

100 % Solubility (water)

Partition coefficient Not applicable.

(n-octanol/water)

Auto-ignition temperature Non-flammable. Not applicable. **Decomposition temperature** Not available. Viscosity Not explosive. **Explosive properties** Oxidising properties Not oxidising.

9.2. Other information

Kinematic viscosity Property has not been measured.

# **SECTION 10: Stability and reactivity**

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

Material is stable under normal conditions. 10.2. Chemical stability

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Contact with incompatible materials. 10.4. Conditions to avoid

10.5. Incompatible materials Strong oxidising agents.

10.6. Hazardous

decomposition products

No hazardous decomposition products are known.

# **SECTION 11: Toxicological information**

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation No adverse effects due to inhalation are expected. Eye contact Direct contact with eyes may cause temporary irritation.

The product contains a small amount of sensitizing substance which may provoke an allergic Skin contact

reaction among sensitive individuals in contact with skin.

May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of Ingestion

occupational exposure.

**Symptoms** Exposure may cause temporary irritation, redness, or discomfort.

## 11.1. Information on toxicological effects

Acute toxicity

**Product Species Test Results** 

BioZvme EX3

Acute Oral

**ATFmix** 440000 mg/kg

Skin corrosion/irritation

Serious eye damage/eye

irritation

Due to partial or complete lack of data the classification is not possible. Due to partial or complete lack of data the classification is not possible.

Respiratory sensitisation Due to partial or complete lack of data the classification is not possible.

Skin sensitisation Based on available data, the classification criteria are not met. However: The product contains a

small amount of sensitising substance which may provoke an allergic reaction among sensitive

individuals in contact with skin.

Due to partial or complete lack of data the classification is not possible. Germ cell mutagenicity

Carcinogenicity Due to partial or complete lack of data the classification is not possible. Due to partial or complete lack of data the classification is not possible. Reproductive toxicity

Specific target organ toxicity -

single exposure

Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -Due to partial or complete lack of data the classification is not possible.

repeated exposure

Material name: BioZyme EX3 SDS GREAT BRITAIN 4/7 Aspiration hazard Due to partial or complete lack of data the classification is not possible.

Mixture versus substance

information

No information available.

## **SECTION 12: Ecological information**

12.1. Toxicity The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components **Species Test Results** 

1,2-Benzisothiazol-3(2H)-one (CAS 2634-33-5)

Aquatic Acute

Fish LC50 Bleak (Alburnus alburnus) >= 8 - <= 13 mg/l, 96 hours

Octylphenol polyethoxyethanol (CAS 9036-19-5)

Aquatic

Acute

Fish LC50 Rainbow trout, donaldson trout 7.2 mg/l, 96 hours

(Oncorhynchus mykiss)

No data is available on the degradability of any ingredients in the mixture.

12.2. Persistence and degradability

12.3. Bioaccumulative potential

Partition coefficient Not available.

n-octanol/water (log Kow)

Bioconcentration factor (BCF) Not available. 12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB

assessment

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII.

12.6. Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

EU waste code The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Disposal methods/information

Special precautions Dispose in accordance with all applicable regulations.

Not established.

## **SECTION 14: Transport information**

**ADR** 

14.1. - 14.6.: Not regulated as dangerous goods.

**RID** 

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

**IMDG** 

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of

MARPOL 73/78 and the IBC

Code

### **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Retained direct EU regulations

Material name: BioZyme EX3 SDS GREAT BRITAIN LS-7200 series, (Formula: LB-7200/1) Version #: 01 Issue date: 29-September-2022

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Octylphenol polyethoxyethanol (CAS 9036-19-5)

#### **Authorisations**

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

#### Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Not listed.

## Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

1,2-Benzisothiazol-3(2H)-one (CAS 2634-33-5)

#### Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

# 15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

# **SECTION 16: Other information**

#### List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstract Service.

CEN: European Committee for Standardization.

IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative and toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit. TWA: Time Weighted Average.

vPvB: Very persistent and very bioaccumulative.

### References

ECHA registered substances database

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.

Material name: BioZyme EX3 SDS GREAT BRITAIN

**Revision information** 

Product and Company Identification: Product Codes Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties

Regulatory Information: Other

GHS: Classification

Training information Disclaimer

Follow training instructions when handling this material.

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