

SAFETY DATA SHEET
according to Regulation (EU) 2020/878

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Triple - Zyme Detergent (Blue)

Revision 4

Revision date 2023-01-24

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

1.1. Product identifier

Product name	Triple - Zyme Detergent (Blue)
Product code	1088TE/TE200/1088TEUN/1088TE20/1088TE10

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

Description	Detergent.
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1.3. Details of the supplier of the safety data sheet

Company	Serchem Limited
Address	Heatherset Arleston, off Dawley Road Wellington, Telford Shropshire TF1 2LY United Kingdom
Web	www.serchem.co.uk
Telephone	01952 223130
Fax	01952 222012
Email	support@serchem.co.uk
Email address of the competent person	production@serchem.co.uk

1.4. Emergency telephone number

Emergency telephone number	01952 223130 9.00 am - 5.00 pm Mon - Fri The National Poisons Information Service (NPIS) Industry: sds.npis@nhs.net Public: NHS 111 (England), NHS 24 (Scotland) or NHS Direct (Wales)
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Further information

	Contact out of office hours : 07734 874648 Mr A Arnold.
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008	Eye Irrit. 2: H319;
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2.2. Label elements

Hazard pictograms	
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2.2. Label elements

Signal Word	Warning
Hazard Statement	Eye Irrit. 2: H319 - Causes serious eye irritation.
Precautionary Statement: Prevention	P264 - Wash thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

Other hazards	This substance is not identified as a PBT substance.
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
1, 2 Dihydroxypropane (Propane-1,2-diol total vapour and particulates)		57-55-6	200-338-0			
Potassium polyphosphate aqueous solution						Eye Irrit. 2: H319;
Cellulase	647-002-00-3	9012-54-8	232-734-4			Resp. Sens. 1: H334;
Amylase, a-	647-015-00-4	9000-90-2	232-565-6			Resp. Sens. 1: H334;
Lipase		9001-62-1	232-619-9			Resp. Sens. 1: H334;
Acrylic acid	607-061-00-8	79-10-7	201-177-9			Flam. Liq. 3: H226; Acute Tox. 4: H332; Acute Tox. 4: H302; Skin Corr. 1A: H314; Aquatic Acute 1: H400;
Subtilisin (Subtilisins (Bacillus subtilis Carlsberg))	647-012-00-8	9014-01-1	232-752-2			STOT SE 3: H335; Skin Irrit. 2: H315; Eye Dam. 1: H318; Resp. Sens. 1: H334;

Particle Characteristics

	An Aqueous blend of polyphosphates, soil suspending agents.
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SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove casualty from exposure ensuring one's own safety whilst doing so. Seek medical attention if irritation or symptoms persist.
Eye contact	Avoid contact with eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Avoid contact with skin. Wash with water. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Seek medical attention if irritation or symptoms persist.
Ingestion	Remove casualty from exposure ensuring one's own safety whilst doing so. Rinse mouth thoroughly. Seek medical attention if irritation or symptoms persist.

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

Inhalation	Remove the affected person from the source of contamination immediately. Seek medical attention if irritation or symptoms persist.
Eye contact	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Avoid contact with eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open.

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

Skin contact	Seek medical attention if irritation or symptoms persist.
	After contact with skin, wash immediately with plenty of water. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Seek medical attention if irritation or symptoms persist.
Ingestion	Remove the affected person from the source of contamination immediately. Rinse mouth thoroughly. Seek medical attention if irritation or symptoms persist.

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

Inhalation	Remove the affected person from the source of contamination immediately. Seek medical attention if irritation or symptoms persist.
Eye contact	Avoid contact with eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Avoid contact with skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Seek medical attention if irritation or symptoms persist.
Ingestion	Remove the affected person from the source of contamination immediately. Rinse mouth thoroughly. Seek medical attention if irritation or symptoms persist.

SECTION 5: Firefighting measures

5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
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5.2. Special hazards arising from the substance or mixture

	Material is not flammable and not considered a fire hazard.
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5.3. Advice for firefighters

	Protective equipment. Self-contained breathing apparatus. Wear suitable respiratory equipment when necessary.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes and skin. Wear suitable protective clothing, gloves and eye/face protection.
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6.2. Environmental precautions

	Accidental release measures. Do not allow product to enter drains. Do not allow runoff water to enter sewers or drains. local and national regulations.
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6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Sand. Solid. Do not allow product to enter drains. Do not allow runoff water to enter sewers or drains. Do not empty into drains; dispose of this material and its container in a safe way.
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6.4. Reference to other sections

	See section 2,3,8,13 for further information.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

	Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes and skin. Do not empty into drains. Do not empty into drains; dispose of this material and its container in a safe way. Wear suitable protective clothing, gloves and eye/face protection.
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7.2. Conditions for safe storage, including any incompatibilities

Suitable packaging	Keep in a cool, dry, well ventilated area. Keep only in the original container. Store at temperatures between 5 °C and 25 °C. Store in original container.
	Keep container tightly closed and dry. Keep only in the original container in a cool, well-ventilated

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7.2. Conditions for safe storage, including any incompatibilities

place. Store in original container.

7.3. Specific end use(s)

Detergent.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

See section 8.2 for further information.

8.1.1. Exposure Limit Values

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8.1.1. Exposure Limit Values

1, 2 Dihydroxypropane (Propane-1,2-diol particulates)	<p>WEL 8-hr limit ppm: -</p> <p>WEL 15 min limit ppm: -</p> <p>WEL 8-hr limit mg/m3 total inhalable dust: -</p> <p>WEL 8-hr limit mg/m3 total respirable dust: -</p> <p>ATE ORL-CAT 1- H300: ATE ORL-CAT 3- H301: ATE DRM-CAT 1- H310: ATE DRM-CAT 3- H311: ATE INH-GAS- CAT 1- H330: ATE INH-GAS- CAT 3- H331: ATE INH-VAP- CAT 1- H330: ATE INH-VAP- CAT 3- H331: ATE INH-D/M- CAT 1- H330: ATE INH-D/M- CAT 3- H331: PNEC Aqua(Fresh): PNEC Sediment(Fresh): PNEC Soil:</p>	<p>WEL 8-hr limit mg/m3: 10</p> <p>WEL 15 min limit mg/m3: -</p> <p>WEL 15 min limit mg/m3 total inhalable dust: -</p> <p>WEL 15 min limit mg/m3 total respirable dust: -</p> <p>ATE ORL-CAT 2- H300: ATE ORL-CAT 4- H302: ATE DRM-CAT 2- H310: ATE DRM-CAT 4- H312: ATE INH-GAS- CAT 2- H330: ATE INH-GAS- CAT 4- H332: ATE INH-VAP- CAT 2- H330: ATE INH-VAP CAT 4- H332: ATE INH-D/M- CAT 2- H330: ATE INH-D/M- CAT 4- H332: PNEC Aqua(Marine): PNEC Sediment(Marine):</p>
1, 2 Dihydroxypropane (Propane-1,2-diol total vapour and particulates)	<p>WEL 8-hr limit ppm: 150</p> <p>WEL 15 min limit ppm: -</p> <p>WEL 8-hr limit mg/m3 total inhalable dust: -</p> <p>WEL 8-hr limit mg/m3 total respirable dust: -</p> <p>ATE ORL-CAT 1- H300: ATE ORL-CAT 3- H301: ATE DRM-CAT 1- H310: ATE DRM-CAT 3- H311: ATE INH-GAS- CAT 1- H330: ATE INH-GAS- CAT 3- H331: ATE INH-VAP- CAT 1- H330: ATE INH-VAP- CAT 3- H331: ATE INH-D/M- CAT 1- H330: ATE INH-D/M- CAT 3- H331: PNEC Aqua(Fresh): PNEC Sediment(Fresh): PNEC Soil:</p>	<p>WEL 8-hr limit mg/m3: 474</p> <p>WEL 15 min limit mg/m3: -</p> <p>WEL 15 min limit mg/m3 total inhalable dust: -</p> <p>WEL 15 min limit mg/m3 total respirable dust: -</p> <p>ATE ORL-CAT 2- H300: ATE ORL-CAT 4- H302: ATE DRM-CAT 2- H310: ATE DRM-CAT 4- H312: ATE INH-GAS- CAT 2- H330: ATE INH-GAS- CAT 4- H332: ATE INH-VAP- CAT 2- H330: ATE INH-VAP CAT 4- H332: ATE INH-D/M- CAT 2- H330: ATE INH-D/M- CAT 4- H332: PNEC Aqua(Marine): PNEC Sediment(Marine):</p>
Subtilisin (Subtilisins (Bacillus subtilis Carlsberg))	<p>WEL 8-hr limit ppm: -</p> <p>WEL 15 min limit ppm: -</p> <p>WEL 8-hr limit mg/m3 total inhalable dust: -</p> <p>WEL 8-hr limit mg/m3 total respirable dust: -</p> <p>ATE ORL-CAT 1- H300: ATE ORL-CAT 3- H301: ATE DRM-CAT 1- H310: ATE DRM-CAT 3- H311: ATE INH-GAS- CAT 1- H330: ATE INH-GAS- CAT 3- H331: ATE INH-VAP- CAT 1- H330:</p>	<p>WEL 8-hr limit mg/m3: 0.00004</p> <p>WEL 15 min limit mg/m3: -</p> <p>WEL 15 min limit mg/m3 total inhalable dust: -</p> <p>WEL 15 min limit mg/m3 total respirable dust: -</p> <p>ATE ORL-CAT 2- H300: ATE ORL-CAT 4- H302: ATE DRM-CAT 2- H310: ATE DRM-CAT 4- H312: ATE INH-GAS- CAT 2- H330: ATE INH-GAS- CAT 4- H332: ATE INH-VAP- CAT 2- H330:</p>

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8.1.1. Exposure Limit Values

Subtilisin (Subtilisins (Bacillus subtilis Carlsberg))	ATE INH-VAP- CAT 3- H331:	ATE INH-VAP CAT 4- H332:
	ATE INH-D/M- CAT 1- H330:	ATE INH-D/M- CAT 2- H330:
	ATE INH-D/M- CAT 3- H331:	ATE INH-D/M- CAT 4- H332:
	PNEC Aqua(Fresh):	PNEC Aqua(Marine):
	PNEC Sediment(Fresh):	PNEC Sediment(Marine):
	PNEC Soil:	

8.2. Exposure controls

	
8.2.1. Appropriate engineering controls	Control parameters. Engineering measures. Ensure adequate ventilation of the working area. Store at temperatures above 5 °C. Store at temperatures below 25 °C.
8.2.2. Individual protection measures	Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes and skin. Remove contaminated clothing. Wash all contaminated clothing before reuse. Wear protective clothing. Wear suitable gloves and eye/face protection.
Eye / face protection	Avoid contact with eyes. Eye wash bottle with water. Provide eye wash station. Wear eye/face protection.
Skin protection - Handprotection	Wear suitable gloves.
Skin protection - Other	After contact with skin, wash immediately with plenty of water. Wear suitable gloves.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Blue
Odour	Slight
Odour threshold	Not required
pH	7 - 9
Initial boiling point	100
Flash point	150
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable.
Vapour pressure	Not required
Relative Vapour Density	Not required
Partition coefficient	Not applicable.
Autoignition temperature	Not applicable.
Viscosity	Not determined
Explosive properties	Not applicable.
Oxidising properties	Not applicable.
Solubility	Soluble in water

9.2. Other information

Conductivity	Not determined
Surface tension	Not determined
Specific gravity	1.15 - 1.25
Gas group	Not required

9.2.1. Information with regard to physical hazard classes

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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

Stable under recommended transport or storage conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Do not mix with other detergents materials. Do not mix with bleach , acids , or strong oxidising agents.

10.4. Conditions to avoid

Keep away from heat. Keep only in the original container at a temperature not exceeding 25 °C.

10.5. Incompatible materials

Acids. Bases. Oxidising agents. Strong acids. Keep away from bleach , or other detergents materials.

SECTION 11: Toxicological information

11.1.4. Toxicological Information

No data available

11.2 Information on other hazards

No data available.

SECTION 12: Ecological information

12.1. Toxicity

No data available

12.3. Bioaccumulative potential

Partition coefficient

Triple - Zyme Detergent (Blue) Not applicable.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

SECTION 13: Disposal considerations

Disposal methods

Do not empty into drains; dispose of this material and its container in a safe way. Local and national regulations. This material and its container must be disposed of in a safe way.

Disposal of packaging

Local and national regulations. Clean the empty containers first with plenty of water. Containers can be recycled if in compliance with local and national regulations.

SECTION 14: Transport information

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14.1. UN number

The product is not classified as dangerous for carriage.

14.2. UN proper shipping name

The product is not classified as dangerous for carriage.

14.3. Transport hazard class(es)

The product is not classified as dangerous for carriage.

14.4. Packing group

The product is not classified as dangerous for carriage.

14.5. Environmental hazards

The product is not classified as dangerous for carriage.

14.6. Special precautions for user

The product is not classified as dangerous for carriage.

14.7 Maritime Transport in bulk according to IMO instruments

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

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

Regulations

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out on the mixture.

SECTION 16: Other information

Other information

Revision

This document differs from the previous version in the following areas:.

- 9 - 9.2.2. Other safety characteristics.
- 9 - 9.2.1. Information with regard to physical hazard classes.
- 11 - 11.2 Information on other hazards.
- 12 - 12.6 Endocrine disrupting properties.
- 12 - 12.7 Other adverse effects.

Text of Hazard Statements in Section 3

Eye Irrit. 2: H319 - Causes serious eye irritation.
 Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 Flam. Liq. 3: H226 - Flammable liquid and vapour.
 Acute Tox. 4: H302 - Harmful if swallowed.
 Acute Tox. 4: H312 - Harmful in contact with skin.
 Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.
 Acute Tox. 4: H332 - Harmful if inhaled.
 STOT SE 3: H335 - May cause respiratory irritation.
 Aquatic Acute 1: H400 - Very toxic to aquatic life.
 Skin Irrit. 2: H315 - Causes skin irritation.
 Eye Dam. 1: H318 - Causes serious eye damage.

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Further information

	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.
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