

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 09/05/2016

Revision date: 04/12/2017

Supersedes: 10/01/2017

Version: 1.2

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SECTION 1: Identificat	ion of the substance/mixtu	re and of th <u>e company</u>	/undertaking	<u></u>
1.1. Product identifier				
Product form	: Mixture			
Product name	: Cellulase (en	do-1,4-β-D-glucanase) (Therm	obifida halotolerans)	
Product code	: E-CELTH			
1.2. Relevant identified	uses of the substance or mixture	and uses advised against		
1.2.1. Relevant identified	uses			
Industrial/Professional use spe	ec : For professio	nal use only		
Use of the substance/mixture	: Use as labora	atory reagent		
1.2.2. Uses advised again	nst			
No additional information avail	able			
	lier of the safety data sheet			
Megazyme Bray Business Park A98 YV29 Bray - Ireland T +353 12861220 - F +353 12 cs@megazyme.com - www.me				
1.4. Emergency telepho	one number			
Emergency number	: +353 128612	20 [9 am to 5 pm GMT - Mond	ay to Friday]	
SECTION 2: Hazards ic	lentification			
2.1. Classification of th	e substance or mixture			
Not classified Adverse physicochemical, h	Regulation (EC) No. 1272/2008 [Cl numan health and environmental o	effects		
	symptoms or breathing difficulties if	nhaled.		
2.2. Label elements				
Labelling according to Regu EUH-statements	EUH208 - Co	ntact with acids liberates very ntains cellulase. May produce fety data sheet available on re	an allergic reaction.	
Labelling according to: exemption for inner packaging where the contents do not exceed 10ml				
No labelling required				
2.3. Other hazards				
No additional information avail	able			
SECTION 3: Compositi	ion/information on ingredie	ents		
3.1. Substances				
Not applicable				
3.2. Mixtures				
This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II				
SECTION 4: First aid m	neasures			

4.1. Description of first aid measures	
First-aid measures general	: Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.

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ccording to Regulation (EU) 2015/830	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
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	d effects, both acute and delayed
Symptoms/effects after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	edical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measu	res
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from t	he substance or mixture
Hazardous decomposition products in cas	e of : Toxic fumes may be released.
fire	
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release	measures
	ive equipment and emergency procedures
6.1.1. For non-emergency personne	
Emergency procedures	: Ventilate spillage area. Avoid breathing spray, mist.
Emergency procedures	. Ventilate spinage alea. Avoid breathing spray, mist.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for cont	ainment and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and stora	00
7.1. Precautions for safe handling	·
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid breathing spray, mist.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, ir	ncluding any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
7.3. Specific end use(s)	······································
No additional information available	
SECTION 8: Exposure controls/	personal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Protective gloves						
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard	
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)			EN 374-2	
16/02/2018		EN (English)				2/5

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Eye protection:

Safety glasses

Туре	Use	Characteristics	Standard
Safety glasses	Droplet	With side shields	EN 166

Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

Device	Filter type	Condition	Standard
Dust mask	Туре Р1	Protection for Liquid particles	EN 143, EN 149



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Colour	: white.
Odour	: None.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivit	у

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

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10.3.	Possibility of hazardous reactions
Contact	with acids liberates very toxic gas.
10.4.	Conditions to avoid
None ur	nder recommended storage and handling conditions (see section 7).
10.5.	Incompatible materials
Acids.	
10.6.	Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological inform	ation
11.1. Information on toxicological effect	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
	: Not classified
STOT-single exposure	
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
SECTION 12: Ecological information	on
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil No additional information available	
12.5. Results of PBT and vPvB assess	nent
No additional information available	non
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerati	ons
13.1. Waste treatment methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	n
In accordance with ADR / RID / IMDG / IATA	
ADR	IATA
14.1. UN number	
Not applicable	Not applicable

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ADR	ΙΑΤΑ	
14.3. Transport hazard class(es)		
Not applicable	Not applicable	
14.4. Packing group		
Not applicable	Not applicable	
14.5. Environmental hazards		
Not applicable	Not applicable	
No supplementary information available		

14.6. Special precautions for user

- Overland transport

Not applicable

- Air transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:

EUH032	Contact with acids liberates very toxic gas.
EUH208	Contains . May produce an allergic reaction.
EUH210	Safety data sheet available on request.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.