

Cellobiohydrolase I (Trichoderma longibrachiatum) Safety Data Sheet

Megazyme	according to Regulation (EU) 2015/830				
	Date of issue: 25/02/2014	Revision date: 04/11/2017	Supersedes: 11/01/2017	Version: 1.3	
SECTION 1: Identificati	on of the substance/mixtu	re and of the company/	undertaking		
1.1. Product identifier					
Product form	: Mixture				
Product name	: Cellobiohydro	lase I (Trichoderma longibrach	iatum)		
Product code	: E-CBHI				
1.2. Relevant identified	uses of the substance or mixture	and uses advised against			
1.2.1. Relevant identified	uses				
Industrial/Professional use spe	c : For profession	al use only			
Use of the substance/mixture	: Use as labora	tory reagent			
1.2.2. Uses advised again	st				
No additional information availa	able				
1.3. Details of the suppl	ier of the safety data sheet				
Megazyme Bray Business Park A98 YV29 Bray - Ireland T +353 12861220 - F +353 128 cs@megazyme.com - www.me					
1.4. Emergency telepho	ne number				
Emergency number	: +353 1286122	20 [9 am to 5 pm GMT - Monda	ay to Friday]		
SECTION 2: Hazards id	entification				
2.1. Classification of the	e substance or mixture				
	Regulation (EC) No. 1272/2008 [CL	P]			
Classification according to R					
Classification according to R Respiratory sensitisation, Cate	gory 1 H334				

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

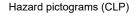
Label elements 2.2.

Labelling according to Regulation (EC) No Hazard pictograms (CLP)	1272/2008 [CLP]
Signal word (CLP) Hazardous ingredients Hazard statements (CLP) Precautionary statements (CLP)	 Danger cellobiohydrolase, exo- H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. P261 - Avoid breathing mist, spray, vapours. P284 - [In case of inadequate ventilation] wear This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342+P311 - If experiencing respiratory symptoms: Call a doctor, a POISON CENTER. P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
EUH-statements	: EUH032 - Contact with acids liberates very toxic gas.

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Labelling according to	: exemption for inner	packaging where th	he contents do not exceed 10ml	
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Hazardous ingredients

sodium azide

: cellobiohydrolase, exo-

2.3. Other hazards

No additional information available

	FION 3: Composition/information on in	igrealents		
3.1.	Substances			
Not ap	plicable			
3.2.	Mixtures			
Namo	9	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]

< 0.1

Acute Tox. 2 (Oral), H300

Aquatic Acute 1, H400 Aquatic Chronic 1, H410

(CAS-No.) 26628-22-8

(EC-No.) 247-852-1 (EC Index-No.) 011-004-00-7

Full text of H-statements: see section 16

substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (GB)

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: 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.
4.2. Most important symptoms and effect	cts, both acute and delayed
No additional information available	
4.3. Indication of any immediate medica	I attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the su	bstance or mixture
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
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 mea	sures
6.1. Personal precautions, protective eq	uipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area.
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".

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.2. Environmenta		
woid release to the envi		
6.3. Methods and	material for containment and cleaning up	
Methods for cleaning up	: Take up liquid spill	into absorbent material.
Other information	: Dispose of materia	ls or solid residues at an authorized site.
6.4. Reference to o	other sections	
For further information re	fer to section 13.	
SECTION 7: Handl	ing and storage	
	or safe handling	
Precautions for safe han	· ·	ation of the work station. Wear personal protective equipment.
Hygiene measures	6	r smoke when using this product. Always wash hands after handling the
7.2. Conditions fo	r safe storage, including any incompatibiliti	es
Storage conditions	: Store in a well-vent	tilated place. Keep cool.
7.3. Specific end u	ise(s)	
No additional information	available	
	ure controls/personal protection	
3.1. Control paran		
•		
sodium azide (26628-2		
EU	Local name	Sodium azide
EU	IOELV TWA (mg/m ³)	0.1 mg/m ³
EU	IOELV STEL (mg/m ³)	0.3 mg/m ³
EU	Notes	Skin
EU	Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
United Kingdom	Local name	Sodium azide
United Kingdom	WEL TWA (mg/m ³)	0.1 mg/m³ (as NaN3)
United Kingdom	WEL STEL (mg/m ³)	0.3 mg/m³ (as NaN3)
United Kingdom	Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)

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

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 insufficient ventilation, wear suitable respiratory equipment

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

Avoid release to the environment.

SECTION 9: Physical and chemical	l properties
9.1. Information on basic physical and	
Physical state	: Liquid
Colour	: Colourless.
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	ty
10.1. Reactivity	
The product is non-reactive under normal conc	litions of use, storage and transport.
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions	
Contact with acids liberates very taxis as	

Contact with acids liberates very toxic gas.

10.4. Conditions to avoid

None under 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.

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CECTION 44. Toxicological inf	
SECTION 11: Toxicological info 11.1. Information on toxicological of	
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	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
SECTION 12: Ecological inform	ation
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	y .
No additional information available	
12.3. Bioaccumulative potential	
Nie eduktiewei infermentiew erreitekte	

No additional information available

12.4.Mobility in soilNo additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

 SECTION 13: Disposal considerations

 13.1.
 Waste treatment methods

 Waste treatment methods
 : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	ΙΑΤΑ
14.1. UN number	
Not applicable	Not applicable
14.2. UN proper shipping name	
Not applicable	Not applicable
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	

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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:

Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Resp. Sens. 1	Respiratory sensitisation, Category 1
H300	Fatal if swallowed.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH032	Contact with acids liberates very toxic gas.

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.