

## endo-1,4-β-Xylanase (Aspergillus aculeatus) Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 21/12/2016 Revision date: 26/01/2018 Supersedes: 21/12/2016

Version: 1.1

	e substance/mixture and of the company/undertaking
.1. Product identifier	
roduct form	: Mixture
roduct name	: endo-1,4-β-Xylanase (Aspergillus aculeatus)
oduct code	: E-XYLAA
2. Relevant identified uses of th	e substance or mixture and uses advised against
2.1. Relevant identified uses	
dustrial/Professional use spec	: For professional use only
se of the substance/mixture	: Use as laboratory reagent
2.2. Uses advised against	
o additional information available	
3. Details of the supplier of the s	safety data sheet
<b>anufacturer</b> egazyme ray Business Park 98 YV29 Bray - Ireland +353 12861220 - F +353 12861264	
@megazyme.com - www.megazyme.co	
4. Emergency telephone number	r : +353 12861220 [9 am to 5 pm GMT - Monday to Friday]
mergency number	
ECTION 2: Hazards identificat	tion
1. Classification of the substand	ce or mixture
assification according to Regulation	(EC) No. 1272/2008 [CLP]
aniratany appaitiantian Ontanany 1	H334
ull text of H statements : see section 16	th and environmental effects
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ull text of H statements : see section 16 dverse physicochemical, human heal lay cause allergy or asthma symptoms o .2. Label elements	th and environmental effects or breathing difficulties if inhaled.
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#### 2.3. Other hazards

#### No additional information available

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

3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Xylanase, endo-1,4-	(CAS-No.) 9025-57-4 (EC-No.) 232-800-2	5 - 10	Resp. Sens. 1, H334
sodium azide substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (GB)	(CAS-No.) 26628-22-8 (EC-No.) 247-852-1 (EC Index-No.) 011-004-00-7	< 0.1	Acute Tox. 2 (Oral), H300 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

#### Full text of H-statements: see section 16

SECTION 4: First aid measures	
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.
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 effec	ts, both acute and delayed
Symptoms/effects after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
4.3. Indication of any immediate medical	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 sub	ostance 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.
<b>SECTION 6: Accidental release meas</b>	sures
6.1. Personal precautions, protective equ	uipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Avoid breathing mist, spray, vapours.
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 containme	nt 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.	

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SECTION 7: Har	dling and storage		
7.1. Precaution	s for safe handling		
Precautions for safe h	nandling :	Ensure good ventilation of the work station. Wear personal protective equipment. Avoid breathing mist, spray, vapours.	
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, including any incompatibilities			
Storage conditions	:	Store in a well-ventilated place. Keep cool.	
7.3. Specific er	nd use(s)		

No additional information available

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

8.1.	Control	parameters

sodium azide (26628-2	2-8)	
EU	Local name	Sodium azide
EU	IOELV TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>
EU	IOELV STEL (mg/m <sup>3</sup> )	0.3 mg/m <sup>3</sup>
EU	Notes	Skin
EU	Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
United Kingdom	Local name	Sodium azide
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	0.1 mg/m³ (as NaN3)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	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)
United Kingdom	Regulatory reference	EH40. HSE

#### 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)		2 (< 1.5)	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 inadequate ventilation] wear respiratory protection.

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.

<b>SECTION 9: Physical and chemic</b>	al properties
9.1. Information on basic physical a	nd chemical properties
Physical state	: Liquid
Colour	: white.
Odour	: None.
Odour threshold	: No data available
рН	: 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

#### Other information 9.2.

No additional information available

SECTIO	IN 10: Stability and reactivity
10.1. I	Reactivity
The produ	ict is non-reactive under normal conditions of use, storage and transport.
10.2.	Chemical stability
Stable und	der normal conditions.
10.3. I	Possibility of hazardous reactions
Contact wi	ith acids liberates very toxic gas.
10.4.	Conditions to avoid
None unde	er recommended storage and handling conditions (see section 7).
10.5. I	Incompatible materials
Acids.	
10.6. I	Hazardous decomposition products
Under nori	mal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information			
11.1. Information on toxicological ef	fects		
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		

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Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information	1
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 assessme	ent
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	
SECTION 13: DISDOSAL CONSIDERATION	ns
13.1. Waste treatment methods	
	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
13.1. Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
13.1.         Waste treatment methods           Waste treatment methods         Image: Comparison of Co	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
13.1.         Waste treatment methods           Waste treatment methods         SECTION 14: Transport information	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
<ul> <li>13.1. Waste treatment methods</li> <li>Waste treatment methods</li> <li>SECTION 14: Transport information</li> <li>In accordance with ADR / RID / IMDG / IATA / A</li> <li>ADR</li> <li>14.1. UN number</li> </ul>	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
13.1.       Waste treatment methods         Waste treatment methods         SECTION 14: Transport information         In accordance with ADR / RID / IMDG / IATA / A         ADR         14.1.       UN number         Not applicable	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
13.1.       Waste treatment methods         Waste treatment methods         SECTION 14: Transport information         In accordance with ADR / RID / IMDG / IATA / A         ADR         14.1.       UN number         Not applicable         14.2.       UN proper shipping name	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
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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

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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.