

Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 04/02/2014 Revision date: 06/02/2018

Supersedes: 06/01/2017

Version: 1.3

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SECTION 1: Identification of	f the substance/mixture and of the company/undertaking
	i the substance/mixture and of the company/undertaking
1.1. Product identifier Product form	: Mixture
Product name	
Product code	: Fructanase Mixture (purified-powder) : E-FRMXPD
1.2. Relevant identified uses of	of the substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Industrial/Professional use spec	: For professional use only
Use of the substance/mixture	: Use as laboratory reagent
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of	the safety data sheet
Megazyme Bray Business Park A98 YV29 Bray - Ireland T +353 12861220 - F +353 12861264 cs@megazyme.com - www.megazym	
1.4. Emergency telephone nu	mber
Emergency number	: +353 12861220 [9 am to 5 pm GMT - Monday to Friday]
SECTION 2: Hazards identif	ication
2.1. Classification of the subs	
Classification according to Regula	tion (EC) No. 1272/2008 [CLP]
Respiratory sensitisation, Category 1	H334
Adverse physicochemical, human May cause allergy or asthma sympton	
2.2. Label elements	
Labelling according to Regulation Hazard pictograms (CLP)	(EC) No. 1272/2008 [CLP]
Signal word (CLP)	: Danger
Hazardous ingredients	: Fructofuranosidase, β-, exo-Inulinase; Inulinase
Hazard statements (CLP)	: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary statements (CLP)	 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.
Labelling according to: exemption	for inner packaging where the contents do not exceed 10ml
Hazard pictograms (CLP)	
	GHS08

Hazardous ingredients

: Fructofuranosidase, β-, exo-Inulinase; Inulinase

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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]
Fructofuranosidase, β -, exo-Inulinase	(CAS-No.) 9001-57-4 (EC-No.) 232-615-7	1 - 5	Resp. Sens. 1, H334
Inulinase	(CAS-No.) 9025-67-6 (EC-No.) 232-802-3	0.1 - 1	Resp. Sens. 1, H334

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 ef	fects, 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 mediate mediate mediate symptomatically.	cal attention and special treatment needed
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam.
5.2. Special hazards arising from the	substance 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 me	easures
6.1. Personal precautions, protective	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Avoid breathing dust.
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 contain	ment and cleaning up
Methods for cleaning up	: Mechanically recover the product.
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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SECT	ION 7: Handling and storage	
7.1.	Precautions for safe handling	
Precaut	tions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid breathing dust.
Hygien	e measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2.	Conditions for safe storage, includir	ng any incompatibilities
Storage	conditions	: Store in a well-ventilated place. Keep cool.
7.3.	Specific end use(s)	
No add	itional information available	
SECT	ION 8: Exposure controls/perse	onal protection
8.1.	Control parameters	
No add	itional 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)		2 (< 1.5)	EN 374-2

Eye protection:

Safety glasses

Туре	Use	Characteristics	Standard
Safety glasses	Dust	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 Solid 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	d chemical properties	
Physical state	: Solid	
Colour	: Light yellow to brown.	
Odour Odour threshold	: None.	
	: No data available	
pН	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
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5 5 (-)	
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Solubility	: Soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).
10.5. Incompatible materials
No additional information available

10.6. Hazardous decomposition products

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

11.1. Information on toxicological	effects
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 information		
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	
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Chronic	aquatic toxicity	: Not classified
ormorme		
12.2.	Persistence and degradability	
No add	itional information available	
12.3.	Bioaccumulative potential	
No add	itional information available	
12.4.	Mobility in soil	
No add	itional information available	
12.5.	Results of PBT and vPvB assessme	nt second se
No add	itional information available	
12.6.	Other adverse effects	
No add	itional information available	
SECT	ION 13: Disposal consideration	S
13.1.	Waste treatment methods	
Waste f	reatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECT	ION 14: Transport information	
In acco	rdance with ADR / RID / IMDG / IATA / AE	N
ADR		IATA
14.1.	UN number	
Not app		Not applicable
14.2.	UN proper shipping name	
Not app		Not applicable
14.3.	Transport hazard class(es)	
Not app		Not applicable
14.4. Not app	Packing group	Net applicable
INOL ADD		Not applicable
	The second	
14.5. Not app	Environmental hazards	Not applicable

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:

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Resp. Sens. 1	Respiratory sensitisation, Category 1
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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.