

Safety Data Sheet

according to Regulation (EU) 2015/830 Issue date: 19/11/2019 Revision date: 02/03/2022 Supersedes version of: 19/11/2019 Version: 1.0

SECTION 1: Identification of the subs	stance/mixture and of the company/undertaking
1.1. Product identifier	
Product form Product name Product code	 Mixture Pure Fructanase Mixture for Fructan Determination E-FRPDPU
1.2. Relevant identified uses of the subst	tance or mixture and uses advised against
1.2.1. Relevant identified uses	
Industrial/Professional use spec Use of the substance/mixture	: For professional use only : Use as laboratory reagent
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safety of	lata sheet
Megazyme Bray Business Park A98 YV29 Bray - Ireland T +353 12861220 - F +353 12861264 <u>cs@megazyme.com</u> - <u>www.megazyme.com</u>	
1.4. Emergency telephone number	
Emergency number	: +353 12861220 [9 am to 5 pm GMT - Monday to Friday]
SECTION 2: Hazards identification 2.1. Classification of the substance or mi	ixture
Classification according to Regulation (EC) No	o. 1272/2008 [CLP]
Respiratory sensitisation, Category 1 Full text of H-statements: see section 16	H334
Adverse physicochemical, human health and	
May cause allergy or asthma symptoms or breath	ing difficulties if inhaled.
2.2. Label elements	
Labelling according to Regulation (EC) No. 12	72/2008 [CLP]
Hazard pictograms (CLP)	: GHS08
Signal word (CLP) Contains Hazard statements (CLP) Precautionary statements (CLP)	 Example 1 Danger Fructofuranosidase, β-, exo-Inulinase; Inulinase H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. P261 - Avoid breathing mist, spray, vapours. P284 - 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. P504 - Dispose of contents and container to bazardous or special waste collection point in

Labelling according to: exemption for inner packaging where the contents do not exceed 10ml

P501 - Dispose of contents and container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

Safety Data Sheet

according to Regulation (EU) 2015/830

Hazard pictograms (CLP)



Hazardous ingredients

: Fructofuranosidase, β-, exo-Inulinase; Inulinase

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	70 – 80	Resp. Sens. 1, H334
Inulinase	(CAS-No.) 9025-67-6 (EC-No.) 232-802-3	20 – 30	Resp. Sens. 1, H334

Full text of H- and EUH-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 medical attention and special treatment needed

Treat symptomatically.

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.	

Safety Data Sheet according to Regulation (EU) 2015/830

SECTION 6: Accidental release	e measures
6.1. Personal precautions, protect	tive equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapours/spray.
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 con	tainment and cleaning up
Methods for cleaning up Other information	Mechanically recover the product.Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13	J.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling :	Ensure good ventilation of the work station. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.
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 an	y 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)		2 (< 1.5)	EN 374-2

Eye protection:	
Safety glasses	

Safety Data Sheet according to Regulation (EU) 2015/830

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	Type P1	Protection for Solid particles	EN 143, EN 149

Personal protective equipment symbol(s):



Environmental exposure controls:

Avoi

Avoid release to the environment.	
SECTION 9: Physical and chemical p	properties
9.1. Information on basic physical and cl	hemical properties
Physical state	: Solid
Colour	: Light yellow to brown.
Odour	: None.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
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	: No data available
Solubility	: Soluble in water.
Partition coefficient n-octanol/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	: Not applicable
9.2. Other information	
No additional information available	

Safety Data Sheet

according to Regulation (EU) 2015/830

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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	 Not classified Not classified Not classified
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity	 Not classified Not classified May cause allergy or asthma symptoms or breathing difficulties if inhaled. Not classified 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. Hazardous to the aquatic environment, short-term (acute) : Not classified Hazardous to the aquatic environment, long-term (chronic) : Not classified 12.2. Persistence and degradability No additional information available 12.3. Bioaccumulative potential

No additional information available

Safety Data Sheet

according to Regulation (EU) 2015/830

12.4. Mobility in soil

No 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

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	

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

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Safety Data Sheet

according to Regulation (EU) 2015/830

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

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:	
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.