

Digestible and Resistant Starch Assay Kit

Kit Safety Information Sheet

Date of issue: 30/11/2018

Revision date: 30/11/2018

Version: 1.0

SECTION 1: Kit identification	
1.1. Kit identifier	
Product name Product code	:Digestible and Resistant Starch Assay Kit :K-DSTRS
Floude	
1.2. Details of the supplier of the KIT saf	ety information 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>	

SECTION 2: General information

This product is a Kit which consists of several independently packaged components

This Kit should be handled in accordance with good laboratory practices and appropriate personal protective equipment should be used

SECTION 3: Kit contents

Name	General description	Quantity	Unit	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Digestible and Resistant Starch Assay Kit (Bottle 1)	Reagent	1	pcs (pieces)	Resp. Sens. 1, H334
Digestible and Resistant Starch Assay Kit (Bottle 2)	Reagent	1	pcs (pieces)	Resp. Sens. 1, H334
Digestible and Resistant Starch Assay Kit (Bottle 3)	Reagent	1	pcs (pieces)	Skin Corr. 1B, H314
Digestible and Resistant Starch Assay Kit (Bottle 4)	Reagent	1	pcs (pieces)	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334

No substance or mixture included in the following Kit components is hazardous according to Regulation (EC) No. 1272/2008 [CLP] and therefore the requirements of Regulation (EU) 2015/830 do not apply

Name	General description	Quantity	Unit
Digestible and Resistant Starch Assay Kit (Bottle 5)	Reagent	1	pcs (pieces)
Digestible and Resistant Starch Assay Kit (Bottle 6)	Reagent	1	pcs (pieces)

SECTION 4: General advice

No data available

SECTION 5: Safe handling advice	9		
Environmental precautions	: Avoid release to the environment		
Storage conditions	: Store in a well-ventilated place. Keep cool.		
Precautions for safe handling : Ensure good ventilation of the work station Wear personal protective equipment			
SECTION 6: First aid measures			
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		
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		
Other medical advice or treatment	: Treat symptomatically		

Digestible and Resistant Starch Assay Kit

Kit Safety Information Sheet

SECTION 7: Fire fighting measures	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment Self-contained breathing apparatus Complete protective clothing
Hazardous decomposition products in case of fire	: Toxic fumes may be released
SECTION 8: Other information	

No data available



Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 30/11/2018 Revision date: 30/11/2018 Version: 1.0

Date of Issue: 30/11/2018 Revision date: 30/1	1/2018 Version: 1.0
SECTION 1: Identification of the substance/mixture and of the co	mpany/undertaking
1.1. Product identifier	
Product form : Mixture	
Product name : Digestible and Resistant Starch As	say Kit (Bottle 6)
Product code : K-DSTRS (Bottle 6)	
1.2. Relevant identified uses of the substance or mixture and uses advised a	gainst
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 <u>cs@megazyme.com</u> - <u>www.megazyme.com</u>	
1.4. Emergency telephone number	
Emergency number : +353 12861220 [9 am to 5 pm GM]	T - Monday to Friday]
SECTION 2: Hazards identification	
2.1. Classification of the substance or mixture	
Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified	
Adverse physicochemical, human health and environmental effects To our knowledge, this product does not present any particular risk, provided it is handle practice.	ed in accordance with good occupational hygiene and safety
2.2. Label elements	
Labelling according to Regulation (EC) No. 1272/2008 [CLP] No labelling applicable	
Labelling according to: exemption for inner packaging where the contents do not	exceed 10ml
No labelling required	
2.3. Other hazards	
No additional information available	
SECTION 3: Composition/information on ingredients	
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 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.

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4.2. No addit	I.2. Most important symptoms and effects, both acute and delayed No additional information available				
4.3.	4.3. Indication of any immediate medical attention and special treatment needed				
Treat sy	mptomatically.				
SECTI	ON 5: Firefighting measures				
5.1.	Extinguishing media				
Suitable	extinguishing media	: Water spray. Dry powder. Foam.			
5.2.	Special hazards arising from the sub	stance or mixture			
Hazardo fire	us decomposition products in case of	: Toxic fumes may be released.			
5.3.	Advice for firefighters				
Protectio	n during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.			
SECTI	ON 6: Accidental release meas	ures			
6.1.	Personal precautions, protective equ	ipment and emergency procedures			
6.1.1. Emerger	For non-emergency personnel acy procedures	: Ventilate spillage area.			
6.1.2.	For emergency responders				
	e 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 rel	ease to the environment.				
6.3.	Methods and material for containmer	nt and cleaning up			
	for cleaning up	: Mechanically recover the product.			
Other inf	ormation	: Dispose of materials or solid residues at an authorized site.			
6.4.	Reference to other sections				
For furth	er information refer to section 13.				
SECTI	ON 7: Handling and storage				
7.1.	Precautions for safe handling				
Precautio	ons for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment.			
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				
Storage	conditions	: Store in a well-ventilated place. Keep cool.			
7.3.	Specific end use(s)				
	ional information available				
SECTI	ON 8: Exposure controls/perso	nal protection			
8.1.	Control parameters				
No addit	ional information available				
8.2.	Exposure controls				
Appropr	Appropriate engineering controls:				
Ensure g	ood 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 insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition	Standard
Dust mask	Туре Р1	Dust protection	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	: Solid
Colour	: No data available
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	: 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	

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.

Safety Data Sheet

according to Regulation (EU) 2015/830

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 informa	ition
11.1. Information on toxicological effect	S
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
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
SECTION 12: Ecological informatio	n
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 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 assessment
No add	itional information available
12.6.	Other adverse effects
No addi	itional information available
SECT	ION 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	IATA	
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	

Safety Data Sheet

according to Regulation (EU) 2015/830

ADR	ΙΑΤΑ	
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

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.



Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 30/11/2018 Revision date: 30/11/2018 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1. Product identifier
Product form : Mixture
Product name : Digestible and Resistant Starch Assay Kit (Bottle 5)
Product code : K-DSTRS (Bottle 5)
1.2. Relevant identified uses 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 <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 mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Not classified
Adverse physicochemical, human health and environmental effects To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and saf practice.
2.2. Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]
No labelling applicable
Labelling according to: exemption for inner packaging where the contents do not exceed 10ml
No labelling required
2.3. Other hazards
No additional information available
SECTION 3: Composition/information on ingredients
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 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.

Safety Data Sheet

according to Regulation (EU) 2015/830

4.2.	.2. Most important symptoms and effects, both acute and delayed				
No addit	No additional information available				
4.3.	4.3. Indication of any immediate medical attention and special treatment needed				
Treat sy	Treat symptomatically.				
SECTI	ON 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	stance or mixture			
Hazardo fire	us decomposition products in case of	: Toxic fumes may be released.			
5.3.	Advice for firefighters				
Protectio	n during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.			
SECTI	ON 6: Accidental release meas	ures			
6.1.	Personal precautions, protective equ	lipment and emergency procedures			
6.1.1.	For non-emergency personnel				
Emerger	ncy procedures	: Ventilate spillage area.			
6.1.2.	For emergency responders				
Protectiv	e 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 rel	ease to the environment.				
6.3.	Methods and material for containment	nt and cleaning up			
Methods	for cleaning up	: Take up liquid spill into absorbent material.			
Other inf	ormation	: Dispose of materials or solid residues at an authorized site.			
6.4.	Reference to other sections				
For furth	er information refer to section 13.				
SECTI	ON 7: Handling and storage				
7.1.	Precautions for safe handling				
Precautio	ons for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment.			
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, includin				
Storage	conditions	: Store in a well-ventilated place. Keep cool.			
7.3.	Specific end use(s)				
No addit	ional information available				
SECTI	ON 8: Exposure controls/perso	onal protection			
8.1.	Control parameters				
No addit	ional information available				
8.2.	Exposure controls				
Appropr	iate engineering controls:				
	pood ventilation of the work station.				
-	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	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

Device	Filter type	Condition	Standard
Dust mask	Туре Р1		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	: No data available			
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	:			
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.

Safety Data Sheet

according to Regulation (EU) 2015/830

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 informa	tion
11.1. Information on toxicological effects	S
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
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
SECTION 12: Ecological information	n
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 add	No additional 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 assessment					
No add	itional information available					
12.6.	Other adverse effects					
No add	itional information available					
SECT	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	IATA			
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			

Safety Data Sheet

according to Regulation (EU) 2015/830

ADR	ΙΑΤΑ		
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

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.



Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 30/11/2018 Revision date: 30/11/2018 Version: 1.0

SECTION 1: Identification of the set	ubstance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Digestible and Resistant Starch Assay Kit (Bottle 4)
Product code	: K-DSTRS (Bottle 4)
1.2. Relevant identified uses of the su	ibstance 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 safe	ty data sheet
Megazyme Bray Business Park A98 YV29 Bray - Ireland T +353 12861220 - F +353 12861264 cs@megazyme.com - www.megazyme.com	
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 of	r mixture
Serious eye damage/eye irritation, Category 2	H315
Respiratory sensitisation, Category 1	H334
Full text of H statements : see section 16 Adverse physicochemical, human health a Causes skin irritation. Causes serious eye irrit	nd environmental effects tation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
2.2. Label elements	

Labelling according to Regulation (EC)	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	GHS08
Signal word (CLP)	: Danger
Hazardous ingredients	: HORSERADISH PEROXIDASE; GLUCOSE OXIDASE
Hazard statements (CLP)	:H315 - Causes skin irritation. H319 - Causes serious eye irritation H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary statements (CLP)	 P261 - Avoid breathing dust. P264 - Wash hands thoroughly after handling. P280 - Wear eye protection, protective clothing, protective gloves P284 - [In case of inadequate ventilation] wear respiratory protection. P302+P352 - IF ON SKIN: Wash with plenty of water. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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according to Regulation (EU) 2015/830

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

Hazard pictograms (CLP)



Hazardous ingredients

: HORSERADISH PEROXIDASE; GLUCOSE OXIDASE

2.3. Other hazards

No additional information available

SECT	SECTION 3: Composition/information on ingredients						
3.1.	Substances						
Not ap	Not applicable						
3.2.	Mixtures						
Name)	Product identifier	%	Classification according to			

Name		70	Regulation (EC) No. 1272/2008 [CLP]
GLUCOSE OXIDASE	(CAS-No.) 9001-37-0 (EC-No.) 232-601-0	10 - 20	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Resp. Sens. 1, H334
4-Aminoantipyrine	(CAS-No.) 83-07-8 (EC-No.) 201-452-3	10 - 20	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
HORSERADISH PEROXIDASE	(CAS-No.) 9003-99-0 (EC-No.) 232-668-6	1 - 5	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. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
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.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.
4.3. Indication of any immediate medi	cal attention and special treatment needed

Treat symptomatically.

SECT	FION 5: Firefighting measures					
5.1.	Extinguishing media					
Suitabl	e extinguishing media	: Water spray. Dry powder. Foam.				
5.2.	Special hazards arising from the substance or mixture					
Hazard fire	lous decomposition products in case of	: Toxic fumes may be released.				
5.3.	Advice for firefighters					
Protect	tion during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.				

Digestible and Resistant Starch Assay Kit (Bottle 4) Safety Data Sheet

according to Regulation (EU) 2015/830

according to Regulation (EU) 2015/830							
SECTION 6: Accid	dental rele	ase meas	sures					
6.1. Personal pre	cautions, pr	otective eq	uipment and emergency	y procedures				
6.1.1. For non-eme	S.1.1. For non-emergency personnel							
Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust.								
6.1.2. For emergen	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. Environment	tal precautio	ns						
Avoid release to the env	vironment.							
6.3. Methods and material for containment and cleaning up								
Methods for cleaning up)		: Mechanically recover	•				
Other information			: Dispose of materials	or solid residues at an au	uthorized site.			
6.4. Reference to								
For further information r								
SECTION 7: Hand								
7.1. Precautions Precautions for safe ha		dling	· Ensure good vontilati	on of the work station. A	void contact v	with skip and	eves Wear porsonal	
Frecautions for sale na	nunny			. Avoid breathing dust.		VILLE SKILL ALLU	eyes. wear personar	
Hygiene measures				clothing before reuse. Do after handling the produc		k or smoke w	hen using this product.	
7.2. Conditions f	or safe stora	ige, includir	ng any incompatibilities					
Storage conditions			: Store in a well-ventila	ted place. Keep cool.				
7.3. Specific end	use(s)							
No additional information	n available							
SECTION 8: Expo 8.1. Control para No additional information 8.2. Exposure co	meters on available							
Appropriate engineeri	na controls:							
Ensure good ventilation	•							
-								
Hand protection:								
Protective gloves			D ()		D <i>i i</i>			
Туре	Material	<i></i>	Permeation	Thickness (mm)	Penetratio	n	Standard	
Disposable gloves	Nitrile rubbe	er (NBR)	3 (> 60 minutes)		2 (< 1.5)		EN 374-2	
Eye protection:								
Safety glasses	,			1				
Туре		Use		Characteristics Standard				
Safety glasses		Dust		With side shields EN 166				
Skin and body protect	ion:							
Wear suitable protective	e clothing							
Type Standard								
Lab coat								
Respiratory protection	ı.			1				
		ar suitable re	espiratory equipment. [In	case of inadequate venti	lation] wear m	spiratory pr	atection	
Device		Filter type	. ,	Condition		Standard		
B04100		- mor type		Solution		Junuaru		

Device	Filter type	Condition	Standard
Dust mask	Туре Р1	Dust protection	EN 143, EN 149

Safety Data Sheet

according to Regulation (EU) 2015/830



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	: Solid	
Colour	: No data available	
Odour	: None.	
Odour threshold	: No data available	
pH	: 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	: 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 reactivit	ty	
10.1. Reactivity		
The product is non-reactive under normal cond	litions 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 of		
10.4. Conditions to avoid None under recommended storage and handli	na conditions (see section 7)	
10.5. Incompatible materials		
No additional information available		
10.6. Hazardous decomposition products		
Under normal conditions of storage and use, h	azardous decomposition products should not be produced.	
SECTION 11: Toxicological information	ation	
11.1. Information on toxicological effec		
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
······································		

Acute toxicity (inhalation)

: Not classified

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4-Aminoantipyrine (83-07-8)	
LD50 oral rat	1700 mg/kg rat
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
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		
Chronic aquatic toxicity	: Not classified		

12.2.	Persistence and degradability			
4-Ami	noantipyrine (83-07-8)			
	tence and degradability	Biodegradability in water	: no data available.	
12.3.	Bioaccumulative potential	0 ,		
4-∆mi	noantipyrine (83-07-8)			
Log P		-0.07 (estimated value)		
	cumulative potential	Bioaccumulation unlikely	Ι.	
12.4.	Mobility in soil			
No addi	tional information available			
12.5.	Results of PBT and vPvB assessment			
	tional information available			
12.6.	Other adverse effects			
	tional information available			
SECT	ION 13: Disposal considerations			
13.1.	Waste treatment methods			
Waste t	reatment methods	ethods : Dispose of contents/container in accordance with licensed collector's sorting instructions.		
SECT	ION 14: Transport information			
-	rdance with ADR / RID / IMDG / IATA / ADI	1		
ADR		-	ΑΤΑ	
14.1.	UN number	12		
Not app		N	lot applicable	
14.2.	UN proper shipping name			
Not app	applicable Not applicable			

Not applicable

Not applicable

Not applicable

No supplementary information available

14.3.

14.4.

Not applicable

Not applicable **14.5.** Envi

Not applicable

Transport hazard class(es)

Environmental hazards

Packing group

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according to Regulation (EU) 2015/830

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. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

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.



Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 30/11/2018 Revision date: 30/11/2018 Version: 1.0

	Date of issue: 30/11/2018 Revision date: 30/11/2018 Version: 1.0
SECTION 1: Identification of	the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Digestible and Resistant Starch Assay Kit (Bottle 3)
Product code	: K-DSTRS (Bottle 3)
1.2. Relevant identified uses of	f 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	ie safety data sheet
Megazyme Bray Business Park A98 YV29 Bray - Ireland T +353 12861220 - F +353 12861264 cs@megazyme.com - www.megazyme	<u>∋.com</u>
1.4. Emergency telephone num	iber
Emergency number	: +353 12861220 [9 am to 5 pm GMT - Monday to Friday]
SECTION 2: Hazards identific	cation
2.1. Classification of the substa	ance or mixture
Classification according to Regulati Skin corrosion/irritation, Category 1B Full text of H statements : see section	H314
Adverse physicochemical, human h Causes severe skin burns and eye dar	
2.2. Label elements	
Labelling according to Regulation (E Hazard pictograms (CLP)	EC) No. 1272/2008 [CLP]
	GHS05
Signal word (CLP)	: Danger
Hazardous ingredients	: sodium hydroxide, caustic soda
Hazard statements (CLP)	: H314 - Causes severe skin burns and eye damage.
Precautionary statements (CLP)	 P260 - Do not breathe mist, spray, vapours. P264 - Wash hands thoroughly after handling. P280 - Wear eye protection, protective clothing, protective gloves P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water . P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
EUH-statements	: EUH032 - Contact with acids liberates very toxic gas.
2.3. Other hazards	

No additional information available

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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]
sodium hydroxide, caustic soda	(CAS-No.) 1310-73-2 (EC-No.) 215-185-5 (EC Index-No.) 011-002-00-6	1 - 5	Skin Corr. 1A, H314
4-HYDROXYBENZOIC ACID	(CAS-No.) 99-96-7 (EC-No.) 202-804-9	1 - 5	Eye Dam. 1, H318 STOT SE 3, H335
sodium azide substance with a Community workplace exposure limit	(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
Specific concentration limits:			

Name	Product identifier	Specific concentration limits
sodium hydroxide, caustic soda	(CAS-No.) 1310-73-2	(0.5 = <c 2)="" 2,="" <="" h315<="" irrit.="" skin="" th=""></c>
	(EC-No.) 215-185-5 (EC Index-No.) 011-002-00-6	(0.5 = <c 2)="" 2,="" <="" eye="" h319<br="" irrit.="">(2 =<c 1b,="" 5)="" <="" corr.="" h314<="" skin="" th=""></c></c>
		(C >= 5) Skin Corr. 1A, H314

Full text of H-statements: see section 16

SECTION 4. Einst sid massures		
SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general	: Call a physician immediately.	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.	
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.	
First-aid measures after eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.	
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.	
4.2. Most important symptoms and effe	cts, both acute and delayed	
Symptoms/effects after skin contact	: Burns. Irritation.	
Symptoms/effects after eye contact	: Serious damage to eyes.	
Symptoms/effects after ingestion	: Burns.	
4.3. Indication of any immediate medica	al 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	quipment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe 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.		

Safety Data Sheet

according to Regulation (EU) 2015/830

6.3.	Methods and material for containment and cleaning up		
Metho	ds for cleaning up	: Take up liquid spill into absorbent material.	
Other i	information	: Dispose of materials or solid residues at an authorized site.	
6.4.	Reference to other sections		
For fur	ther information refer to section 13.		
SEC	FION 7: Handling and stora	ge	
7.1.	Precautions for safe handling		
Precau	utions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Do not breathe mist, spray, vapours.	
Hygier	ne measures	: Wash contaminated clothing before reuse. 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		
Storag	e conditions	: Store in a well-ventilated place. Keep cool. Store locked up.	
7.3.	Specific end use(s)		
No ado	ditional information available		
SEC	TION 8: Exposure controls/	personal protection	
8.1.	Control parameters		

sodium azide (26628-22-8)		
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

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 insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition	Standard
Dust mask	Туре Р1		EN 143, EN 149



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according to Regulation (EU) 2015/830

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	: Liquid	
Colour	: No data available	
Odour	: None.	
Odour threshold	: No data available	
pН	: 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	:	

9.2. Other information

No additional information available

SECTI	ON 10: Stability and reactivity
10.1.	Reactivity
The prod	duct is non-reactive under normal conditions of use, storage and transport.
10.2.	Chemical stability
Stable u	nder normal conditions.
10.3.	Possibility of hazardous reactions
Contact	with acids liberates very toxic gas.
10.4.	Conditions to avoid
None un	der 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 informa	tion
11.1. Information on toxicological effect	S
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Serious eye damage, category 1, implicit
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified

Safety Data Sheet

according to Regulation (E	EU) 2015/830
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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	
12.1. Toxicity	
Ecology - general :	Before neutralisation, the product may represent a danger to aquatic organisms.
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 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 in	nformation 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

Safety Data Sheet

according to Regulation (EU) 2015/830

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

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
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H300	Fatal if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
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.



2) Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 30/11/2018 Revision date: 30/11/2018 Version: 1.0

SECTION 1: Identification of the	e substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Digestible and Resistant Starch Assay Kit (Bottle 2)
Product code	: K-DSTRS (Bottle 2)
1.2. Relevant identified uses of th	e 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 s	safety data sheet
Megazyme Bray Business Park A98 YV29 Bray - Ireland T +353 12861220 - F +353 12861264 <u>cs@megazyme.com</u> - <u>www.megazyme.co</u>	<u>om</u>
1.4. Emergency telephone numbe	r
Emergency number	: +353 12861220 [9 am to 5 pm GMT - Monday to Friday]
SECTION 2: Hazards identificat	ion
2.1. Classification of the substance	
Classification according to Regulation	
Respiratory sensitisation, Category 1 Full text of H statements : see section 16 Adverse physicochemical, human heal	
Full text of H statements : see section 16 Adverse physicochemical, human heal May cause allergy or asthma symptoms o	th and environmental effects
Full text of H statements : see section 16 Adverse physicochemical, human heal May cause allergy or asthma symptoms o 2.2. Label elements	th and environmental effects or breathing difficulties if inhaled.
Full text of H statements : see section 16 Adverse physicochemical, human heal May cause allergy or asthma symptoms of 2.2. Label elements Labelling according to Regulation (EC)	th and environmental effects or breathing difficulties if inhaled.
Full text of H statements : see section 16 Adverse physicochemical, human heal May cause allergy or asthma symptoms o 2.2. Label elements Labelling according to Regulation (EC) Hazard pictograms (CLP)	Ith and environmental effects or breathing difficulties if inhaled. No. 1272/2008 [CLP]
Full text of H statements : see section 16 Adverse physicochemical, human heal May cause allergy or asthma symptoms of 2.2. Label elements Labelling according to Regulation (EC) Hazard pictograms (CLP) Signal word (CLP)	The and environmental effects or breathing difficulties if inhaled. No. 1272/2008 [CLP]
Full text of H statements : see section 16 Adverse physicochemical, human heal May cause allergy or asthma symptoms o	th and environmental effects or breathing difficulties if inhaled.
Full text of H statements : see section 16 Adverse physicochemical, human heal May cause allergy or asthma symptoms o 2.2. Label elements Labelling according to Regulation (EC) Hazard pictograms (CLP) Signal word (CLP) Hazardous ingredients	th and environmental effects or breathing difficulties if inhaled. No. 1272/2008 [CLP] GHS08 E Danger Amyloglucosidase from Aspergillus niger, AMG
Full text of H statements : see section 16 Adverse physicochemical, human heal May cause allergy or asthma symptoms of 2.2. Label elements Labelling according to Regulation (EC) Hazard pictograms (CLP) Hazardous ingredients Hazard statements (CLP) Precautionary statements (CLP)	 ith and environmental effects by breathing difficulties if inhaled. it is it is inhaled. it is it is i
Full text of H statements : see section 16 Adverse physicochemical, human heal May cause allergy or asthma symptoms of 2.2. Label elements Labelling according to Regulation (EC) Hazard pictograms (CLP) Hazardous ingredients Hazard statements (CLP) Precautionary statements (CLP)	 th and environmental effects by breathing difficulties if inhaled. 1No. 1272/2008 [CLP] <i>i i i i i i i i i i</i>
Full text of H statements : see section 16 Adverse physicochemical, human heal May cause allergy or asthma symptoms of 2.2. Label elements Labelling according to Regulation (EC) Hazard pictograms (CLP) Hazardous ingredients Hazard statements (CLP) Precautionary statements (CLP) EUH-statements Labelling according to: exemption for i	th and environmental effects or breathing difficulties if inhaled. No. 1272/2008 [CLP] i
Full text of H statements : see section 16 Adverse physicochemical, human heal May cause allergy or asthma symptoms of 2.2. Label elements Labelling according to Regulation (EC) Hazard pictograms (CLP) Hazardous ingredients Hazard statements (CLP) Precautionary statements (CLP) EUH-statements	th and environmental effects or breathing difficulties if inhaled. No. 1272/2008 [CLP] i
Full text of H statements : see section 16 Adverse physicochemical, human heal May cause allergy or asthma symptoms of 2.2. Label elements Labelling according to Regulation (EC) Hazard pictograms (CLP) Hazardous ingredients Hazard statements (CLP) Precautionary statements (CLP) EUH-statements Labelling according to: exemption for i	th and environmental effects or breathing difficulties if inhaled. No. 1272/2008 [CLP] i

Safety Data Sheet

according to Regulation (EU) 2015/830

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]
Amyloglucosidase from Aspergillus niger, AMG	(CAS-No.) 9032-08-0 (EC-No.) 232-877-2	10 - 20	Resp. Sens. 1, H334
sodium azide substance with a Community workplace exposure limit	(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 effects,	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 at	tention 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 subst	ance 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 measu	res
6.1. Personal precautions, protective equip	ment 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	
	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 containment	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.	

Safety Data Sheet

according to Regulation (EU) 2015/830

SECTION 7: Handling and storag	e		
7.1. Precautions for safe handling			
Precautions for safe handling : Wear personal protective equipment. Ensure good ventilation of the work station. 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 end use(s)			
No additional information available			

SECTION 8: Exposure controls/personal protection

Control na

o. r. Control parameters		
sodium azide (26628-22-8)		
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

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, clear	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 a	nd chemical properties	
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Colour	: No data available on colour.	
Odour	: None.	
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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	:

9.2. Other information

No additional information available

SECT	ON 10: Stability and reactivity		
10.1.	Reactivity		
The pro	duct is non-reactive under normal conditions of use, storage and transport.		
10.2.	Chemical stability		
Stable u	nder normal conditions.		
10.3.	Possibility of hazardous reactions		
Contact	Contact with acids liberates very toxic gas.		
10.4.	Conditions to avoid		
None ur	der 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 information	ion
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

Safety Data Sheet

according to Regulation (EU) 2015/830

SECTION 12: Ecological informatio	n
SECTION 12: Ecological informatio	
I2.1. 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
2.2. Persistence and degradability	
lo additional information available	
2.3. Bioaccumulative potential	
No additional information available	
2.4. Mobility in soil	
No additional information available	
2.5. Results of PBT and vPvB assessm	ent
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	ons
3.1. Waste treatment methods	
Naste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport informatior	
n accordance with ADR / RID / IMDG / IATA / /	
ADR	ΙΑΤΑ
4.1. UN number	
lot applicable	Not applicable
4.2. UN proper shipping name	
Not applicable	Not applicable
I4.3. Transport hazard class(es) Not applicable	Natamiachla
	Not applicable
14.4. Packing group Not applicable	Not applicable
14.5. Environmental hazards	
Not applicable	Not applicable
	No supplementary information available
4.6. 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

Safety Data Sheet

according to Regulation (EU) 2015/830

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.



Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 30/11/2018 Revision date: 30/11/0208 Version: 1.0

Da	te of issue: 30/11/2018 Revision date: 30/11/0208 Version: 1.0		
SECTION 1: Identification of the	substance/mixture and of the company/undertaking		
1.1. Product identifier			
Product form	: Mixture		
Product name	: Digestible and Resistant Starch Assay Kit (Bottle 1)		
Product code	: K-DSTRS (Bottle 1)		
4.0 Delevent identified wass of the			
	substance or mixture and uses advised against		
1.2.1. Relevant identified uses			
Main use category	: Professional use		
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 sa	afety data sheet		
Manufacturer Megazyme Bray Business Park A98 YV29 Bray - Ireland T +353 12861220 - F +353 12861264 cs@megazyme.com - www.megazyme.com	<u>n</u>		
1.4. Emergency telephone number			
Emergency number	: +353 12861220 [9 am to 5 pm GMT - Monday to Friday]		
SECTION 2: Hazards identificati	on		
2.1. Classification of the substance	e or mixture		
Classification according to Regulation (EC) No. 1272/2008 [CLP]		
Respiratory sensitisation, Category 1	H334		
Full text of H statements : see section 16			
Adverse physicochemical, human health May cause allergy or asthma symptoms or			
2.2. Label elements			
Labelling according to Regulation (EC)	No. 1272/2008 [CLP]		
Hazard pictograms (CLP)			
	GH508		
Signal word (CLP)	: Danger		
Hazardous ingredients	: alpha-Amylase; Glucoamylase		
Hazard statements (CLP)	: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
Precautionary statements (CLP)	 P261 - Avoid breathing dust. P284 - [In case of inadequate ventilation] wear respiratory protection. 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/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)			
nazaru piciogranis (CLF)	GHS08		
Line and a configuration of a set			

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GHS08 : alpha-Amylase; Glucoamylase

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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]
alpha-Amylase	(CAS-№.) 9000-90-2 (EC-№.) 232-565-6 (REACH-no) 01-2119938627-26	70 - 80	Resp. Sens. 1, H334
Glucoamylase	(CAS-No.) 9032-08-0 (EC-No.) 232-877-2	20 - 30	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 effe	cts, 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 medica	Il 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 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 ed	uipment 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 containm	ent 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.	

Safety Data Sheet

according to Regulation (EU) 2015/830

SECT	ION 7: Handling and stor	age
7.1.	Precautions for safe handlin	g
Precau	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,	including any incompatibilities
Storage	e 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	s/personal protection
8.1.	Control parameters	
0.1.	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

Eye protection:

Safety glasses

Туре	Use	Characteristics	Standard
Safety glasses	Dust	clear, With side shields	EN 174

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 chemica	I properties	
9.1. Information on basic physical and	d chemical properties	
Physical state	: Solid	
Colour	: No data available	
Odour	: characteristic.	
Odour threshold	: No data available	
pН	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
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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 pro	duct is non-reactive under normal conditions of use, storage and transport.		
10.2.	Chemical stability		
Stable u	nder normal conditions.		
10.3.	Possibility of hazardous reactions		
No dang	perous 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 addi	tional 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)	: Not classified			
Acute toxicity (dermal)	: Not classified			
Acute toxicity (inhalation)	: Not classified			
alpha-Amylase (9000-90-2)				
LD50 oral rat	> 7500 mg/kg (Rat)			
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			

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according to Regulation (EU) 2015/830

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	
Chronic aquatic toxicity	Not classified	
alpha-Amylase (9000-90-2) LC50 fish 1	> 400 mm// // CE0)	
	> 100 mg/l (LC50)	
EC50 Daphnia 1	> 100 mg/l (EC50)	
Threshold limit algae 1	> 100 mg/l (EC50)	
12.2. Persistence and degradability		
alpha-Amylase (9000-90-2)		
Persistence and degradability	Readily biodegradable in water.	
12.3. Bioaccumulative potential		
alpha-Amylase (9000-90-2)		
Bioaccumulative potential	Bioaccumulation unlikely.	
12.4. Mobility in soil		
No additional information available		
42.5 Describes of DDT and vDvD assessment		
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 / ADI	N	
ADR	ΙΑΤΑ	
14.1. UN number		
Not applicable	Not applicable	
14.2. UN proper shipping name	Netapplicable	
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

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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:

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.