

Amylose/Amylopectin Assay Kit

Kit Safety Information Sheet

Date of issue: 04/06/2013

Revision date: 20/11/2017

Supersedes: 09/03/2017

Version: 1.4

SECTION 1: Kit identification	
1.1. Kit identifier	
Product name	: Amylose/Amylopectin Assay Kit
Product code	: K-AMYL
1.2. Details of the supplier of the KIT sa	ifety information sheet
Megazyme Bray Business Park	
A98 YV29 Bray - Ireland T +353 12861220 - F +353 12861264	
cs@megazyme.com - www.megazyme.com	
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]
Amylose/Amylopectin Assay Kit (Bottle 1)	Buffer	1	pcs (pieces)	Resp. Sens. 1, H334 Skin Sens. 1, H317 Repr. 2, H361
Amylose/Amylopectin Assay Kit (Bottle 2)	Reagent	1	pcs (pieces)	Resp. Sens. 1, H334
Amylose/Amylopectin Assay Kit (Bottle 3)	Reagent	1	pcs (pieces)	Skin Corr. 1B, H314
Amylose/Amylopectin 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
Amylose/Amylopectin Assay Kit (Bottle 6)	Reagent	1	pcs (pieces)
Amylose/Amylopectin Assay Kit (Bottle 5)	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

Amylose/Amylopectin Assay Kit

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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	



Amylose/Amylopectin Assay Kit (Bottle 6) Safety Data Sheet

according to Regulation (EU) 2015/830

Megazyme	Date of issue: 04/06/2013	Revision date: 23/01/2018	Supersedes: 09/03/2017	Version: 1.4
SECTION 1: Identification of t	the substance/mixtur	e and of the company	/undertaking	
1.1. Product identifier				
Product form	: Mixture			
Product name	: Amylose/Amyl	opectin Assay Kit (Bottle 6)		
Product code	: K-AMYL (Bott	e 6)		
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 profession	al use only		
Use of the substance/mixture	: Use as labora	tory reagent		
1.2.2. Uses advised against				
No additional information available				
1.3. Details of the supplier of th	e 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	ber			
Emergency number	: +353 1286122	0 [9 am to 5 pm GMT - Monda	ay to Friday]	
SECTION 2: Hazards identific	ation			
2.1. Classification of the substa	ance or mixture			
Not classified Adverse physicochemical, human he To our knowledge, this product does no practice.			ordance with good occupation	al hygiene and safet
2.2. Label elements				
Labelling according to Regulation (E	C) No. 1272/2008 [CLP]			
No labelling applicable				
Labelling according to: exemption for	or inner packaging where	the contents do not exceed	10ml	
No labelling required				
2.3. Other hazards				
No additional information available				
SECTION 3: Composition/info	ormation on ingredie	nts		
3.1. Substances				
Not applicable				
3.2. Mixtures				
This mixture does not contain any subs	tances to be mentioned acc	cording to the criteria of section	n 3.2 of REACH annex II	
SECTION 4: First aid measure	es			
one of the first and measure				

4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and eff	ects, both acute and delayed
No additional information available	

Safety Data Sheet

according to Regulation (EU) 2015/830

4.3. Indication of any immediate medical attention and special treatment needed					
Treat symptomatically.					
SECTION 5: Firefi	ghting measures				
5.1. Extinguishin	g media				
Suitable extinguishing n	nedia	: Water spray. Dry pow	der. Foam.		
5.2. Special haza	rds arising from the sul	ostance or mixture			
Hazardous decompositi fire	on products in case of	: Toxic fumes may be r	eleased.		
5.3. Advice for fir	refighters				
Protection during firefig	hting	: Do not attempt to take apparatus. Complete		protective equipment. Self	-contained breathing
SECTION 6: Accid	dental release meas	sures			
6.1. Personal pre	cautions, protective eq	uipment and emergency	v procedures		
6.1.1. For non-eme	rgency personnel				
Emergency procedures		: Ventilate spillage area	а.		
6.1.2. For emergen	cy responders				
Protective equipment			e action without suitable p posure controls/personal	protective equipment. For protection".	further information
6.2. Environment	tal precautions				
Avoid release to the env	vironment.				
6.3. Methods and	I material for containme	ent and cleaning up			
Methods for cleaning up)	: Mechanically recover	•		
Other information		: Dispose of materials or solid residues at an authorized site.			
	other sections				
For further information r					
SECTION 7: Hand					
	for safe handling	– 1 a.e.	5 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Precautions for safe hai Hygiene measures	ndling	•		ear personal protective ec duct. Always wash hands	
Tiygiene measures		product.	noke when using this pro	duct. Always wash hands	
7.2. Conditions f	or safe storage, 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	sure controls/pers	onal protection			
8.1. Control para					
No additional informatio	n available				
8.2. Exposure co	ntrols				
Appropriate engineeri					
Ensure good ventilation	-				
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
Dispusable giures				2 (1.0)	

Eye protection:

Safety glasses

Туре	Use	Characteristics	Standard
Safety glasses	Dust	With side shields	EN 166

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according to Regulation (EU) 2015/830

Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Device I	Filter type	Condition	Standard
Dust mask	Type P1	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	
Physical state	: Solid
Colour	: white.
Odour	: None.
Odour threshold	: No data available
pН	: 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 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).

Safety Data Sheet

according to Regulation (EU) 2015/830

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 in	formation
11.1. Information on toxicologica	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	: 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 de la companya de l
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessme	ent
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	ns
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 / A	DN
ADR	ΙΑΤΑ
14.1. UN number	
Not applicable	Not applicable
14.2. UN proper shipping name Not applicable Image: Comparison of the proper shipping name	Not applicable
14.3. Transport hazard class(es)	
Not applicable	Not applicable

Not applicable

Not applicable

Not applicable 14.5. Envi

Not applicable

Packing group

Environmental hazards

14.4.

Safety Data Sheet

according to Regulation (EU) 2015/830

ADR	IATA
	No supplementary information available
14.6.	Special precautions for user
- Overla	and transport
Not app	blicable
- Air tra	ansport
Not app	blicable
14.7.	Transport in bulk according to Annex II of Marpol and the IBC Code
Not app	licable
SECT	ION 15: Regulatory information
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
15.1.1.	EU-Regulations
Contain	is no REACH substances with Annex XVII restrictions
Contain	is no substance on the REACH candidate list
Contain	is 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.



Amylose/Amylopectin Assay Kit (Bottle 5) Safety Data Sheet

according to Regulation (EU) 2015/830

Megazyme	Date of issue: 04/06/2013	Revision date: 20/11/2017	Supersedes: 09/03/2017	Version: 1.4
SECTION 1: Identification o	f the substance/mixtu	re and of the company	/undertaking	
1.1. Product identifier				
Product form	: Mixture			
Product name	, ,	lopectin Assay Kit (Bottle 5)		
Product code	: K-AMYL (Bott	ile 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 profession	nal use only		
Use of the substance/mixture	: Use as labora	tory 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 1286126 cs@megazyme.com - www.megazym				
1.4. Emergency telephone nu	mber			
Emergency number	: +353 128612	20 [9 am to 5 pm GMT - Mond	ay to Friday]	
SECTION 2: Hazards identif	ication			
2.1. Classification of the subs	stance or mixture			
Not classified Adverse physicochemical, human To our knowledge, this product does practice.			ordance with good occupation	al hygiene and safety
2.2. Label elements				
Labelling according to Regulation No labelling applicable Labelling according to: exemption		the contents do not exceed	10ml	
No labelling required				
2.3. Other hazards				
No additional information available				
SECTION 3: Composition/in	formation on ingredie	ents		
3.1. Substances				
Not applicable				
3.2. Mixtures				
This mixture does not contain any su	bstances to be mentioned ac	cording to the criteria of sectio	n 3.2 of REACH annex II	
SECTION 4: First aid measu	ires			
ocorron 4. First alu measu				

Safety Data Sheet

according to Regulation (EU) 2015/830

	•				
4.3. Indication of	f any immediate medical	attention and special tr	reatment needed		
Treat symptomatically.					
SECTION 5: Firef					
5.1. Extinguishin					
Suitable extinguishing r	nedia	: Water spray. Dry pow	der. Foam. Carbon dioxid	de.	
5.2. Special haza	ards arising from the sul	ostance or mixture			
Hazardous decomposit fire	ion products in case of	: Toxic fumes may be r	eleased.		
5.3. Advice for fi	refighters				
Protection during firefig	hting	: Do not attempt to take apparatus. Complete		protective equipment. Self	-contained breathing
SECTION 6: Accie	dental release meas	sures			
6.1. Personal pre	ecautions, protective eq	uipment and emergency	v procedures		
6.1.1. For non-eme	ergency personnel				
Emergency procedures	;	: Ventilate spillage area	а.		
6.1.2. For emerger	ncy responders				
Protective equipment			e action without suitable p posure controls/personal	protective equipment. For protection".	further information
6.2. Environmen	tal precautions				
Avoid release to the en	vironment.				
6.3. Methods and	d material for containme	ent and cleaning up			
Methods for cleaning up	р	: Take up liquid spill int	o absorbent material.		
Other information		: Dispose of materials of	or solid residues at an au	thorized site.	
6.4. Reference to	o other sections				
For further information	refer to section 13.				
SECTION 7: Hand	lling and storage				
	for safe handling				
Precautions for safe ha	ndling	: Ensure good ventilation	on of the work station. We	ear personal protective ec	quipment.
Hygiene measures		: Do not eat, drink or sr product.	moke when using this pro	duct. Always wash hands	after handling the
7.2. Conditions f	or safe storage, includir	ng any incompatibilities			
Storage conditions		: Store in a well-ventila	ted place. Keep cool.		
7.3. Specific end	l use(s)				
No additional information	on available				
SECTION 8: Expo	sure controls/pers	onal protection			
8.1. Control para	imeters				
No additional information	on available				
8.2. Exposure co	ontrols				
Appropriate engineer					
Ensure good ventilation	-				
Hand protection:					
Protective gloves					
	Matarial	Permention	Thickness (mm)	Panatratian	Standard
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard

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

Safety Data Sheet

according to Regulation (EU) 2015/830

Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment



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
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	

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 ur	ider normal conditions.	
10.3.	Possibility of hazardous reactions	
No dange	erous 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 additi	onal information available	

Safety Data Sheet

according to Regulation (EU) 2015/830

10.6. Hazardous decomposition products

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

Onder normal conditions of storage and use, in	azardous decomposition products should not be produced.			
SECTION 11: Toxicological information				
11.1. Information on toxicological effect				
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			
Looogy - general	effects in the environment.			
Acute aquatic toxicity	: Not classified			
Chronic aquatic toxicity	: Not classified			
12.2. Persistence and degradability				
No additional information available				
12.3. Bioaccumulative potential				
No additional information available				
12.4. Mobility in soil				
No additional information available				
12.5. Results of PBT and vPvB assessment				
No additional information available				
12.6. Other adverse effects				
No additional information available				
SECTION 13: Disposal consideration	ons			
13.1. Waste treatment methods				
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.			
SECTION 14: Transport information	n			
In accordance with ADR / RID / IMDG / IATA /	ADN			
ADR	ΙΑΤΑ			
14.1. UN number				
Not applicable	Not applicable			
14.2.UN proper shipping nameNot 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	Natapplicable			
Not applicable	Not applicable No supplementary information available			
	No supplementally information available			

Safety Data Sheet

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

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.



Amylose/Amylopectin Assay Kit (Bottle 4) Safety Data Sheet according to Regulation (EU) 2015/830

Megazyme	according to Regulation (EU) Date of issue: 04/06/2013	2015/830 Revision date: 20/11/2017	Supersedes: 09/03/2017	Version: 1.4
SECTION 1: Identification of	of the substance/mixtu	re and of the company	/undertaking	
.1. Product identifier		te and of the company	randentaking	
Product form	: Mixture			
Product name		lopectin Assay Kit (Bottle 4)		
roduct code	: K-AMYL (Bott			
0 Delevent identified on a				
	of the substance or mixture	and uses advised against		
.2.1. Relevant identified uses				
ndustrial/Professional use spec	: For professior			
lse of the substance/mixture	: Use as labora	tory reagent		
.2.2. Uses advised against				
lo additional information available				
.3. Details of the supplier of	the safety data sheet			
Megazyme Prov Rusiness Dork				
Bray Business Park A98 YV29 Bray - Ireland				
Γ +353 12861220 - F +353 1286126	4			
s@megazyme.com - www.megazy	<u>me.com</u>			
.4. Emergency telephone nu	umber			
Emergency number	: +353 1286122	20 [9 am to 5 pm GMT - Mond	ay to Friday]	
	fie etter			
SECTION 2: Hazards identi				
2.1. Classification of the sub	stance or mixture			
Classification according to Regula	ation (EC) No. 1272/2008 [CL	.P]		
Skin corrosion/irritation, Category 2	H315			
Serious eye damage/eye irritation, C	ategory H319			
? Respiratory sensitisation, Category ⁻	1 H334			
Full text of H statements : see section	11 10			
Adverse physicochemical, human				
Causes skin irritation. Causes seriou	is eye irritation. May cause all	ergy or asthma symptoms or b	oreathing difficulties if inhaled.	
.2. Label elements				
abelling according to Regulation	(EC) No. 1272/2008 [CLP]			
Hazard pictograms (CLP)				
	GHS08			
Signal word (CLP)	: Danger			
lazardous ingredients	HORSERADI	SH PEROXIDASE; GLUCOSE	OXIDASE	
Hazard statements (CLP)	: H315 - Cause	s skin irritation.		
、 <i>'</i>	H319 - Cause	s serious eye irritation		
		ause allergy or asthma sympto	oms or breathing difficulties if	inhaled.
Precautionary statements (CLP)		breathing dust.		
		hands thoroughly after handlir eye protection, protective cloth		
		e of inadequate ventilation] w		
	P302+P352 -	IF ON SKIN: Wash with plenty	of water.	
	P304+P340 -	IF INHALED: Remove person	to fresh air and keep comfort	able for breathing.

Safety Data Sheet

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	ION 3: Composition/information on in	gredients		
3.1.	Substances			
Not app	olicable			
3.2.	Mixtures			
Name)	Product identifier	%	Classification according to

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

Amylose/Amylopectin Assay Kit (Bottle 4) Safety Data Sheet

according to Regulation (EU) 2015/830

	2015/630						
SECTION 6: Accid	dental rele	ase meas	sures				
6.1. Personal pre	cautions, pr	otective eq	uipment and emergency	/ procedures			
6.1.1. For non-eme	rgency pers	onnel					
Emergency procedures			: Ventilate spillage are	a. Avoid contact with skir	n and eyes. A	void breathin	ig dust.
6.1.2. For emergen	cy responde	ers					
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	al precautio	ns					
Avoid release to the env	vironment.						
6.3. Methods and	I material for	r containme	ent and cleaning up				
Methods for cleaning up)		: Mechanically recover	•			
Other information			: Dispose of materials	or solid residues at an au	ithorized site.		
6.4. Reference to For further information							
		-					
SECTION 7: Hand							
7.1. Precautions Precautions for safe has		unig	Ensure good ventilati	on of the work station. W	ear personal	protective er	nuipment Avoid contact
	i sini y		with skin and eyes. A	void breathing dust.			
Hygiene measures				moke when using this pro minated clothing before re		wash hands	after handling the
7.2. Conditions f	or safe stora	age, includir	ng any incompatibilities				
Storage conditions			: Store in a well-ventila	ted place. Keep cool.			
7.3. Specific end							
No additional informatio	n available						
SECTION 8: Expo	sure cont	rols/pers	onal protection				
8.1. Control para							
No additional information	n available						
8.2. Exposure co	ntrols						
Appropriate engineeri	ng controls:						
Ensure good ventilation	of the work s	station.					
Hand protection:							
Protective gloves							
Туре	Material		Permeation	Thickness (mm)	Penetratio	n	Standard
Disposable gloves	Nitrile rubb	er (NBR)	3 (> 60 minutes)		2 (< 1.5)		EN 374-2
1 0					- (1.0)		
Eye protection:							
Safety glasses						_	
Туре	Use			Characteristics		Standard	
Safety glasses	Safety glasses Dust			With side shields EN 166			
Skin and body protect	ion:						
Wear suitable protective clothing							
Type Standard							
Lab coat							
Respiratory protection:							
		ar suitable m	espiratory equipment. [In	case of inadequate ventil	ation] wear ro	spiratory pr	otection
Device		Filter type				Standard	
LEVILE		- mer tvoe		GUIUIUUI		JUDIA	

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				
	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				
No additional information available				
SECTION 10: Stability and reactivit	N .			
10.1. Reactivity	y .			
The product is non-reactive under normal cond	litions of use, storage and transport			
	nions 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 produc				
Under normal conditions of storage and use, hazardous decomposition products should not be produced.				
Shaer normal conditions of storage and use, It				
SECTION 11: Toxicological information	ation			
11.1. Information on toxicological effect				
Acute toxicity (oral)	: Not classified			
Acute toxicity (dermal)	: Not classified			
- · · · · · · · · · · · · · · · · · · ·				

Acute toxicity (inhalation)

: Not classified

Safety Data Sheet

according to Regulation (EU) 2015/830

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	1
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

12.2. Persistence and degradability			
4-Aminoantipyrine (83-07-8)			
Persistence and degradability	Biodegradability in water: no data available.		
12.3. Bioaccumulative potential			
4-Aminoantipyrine (83-07-8)			
Log Pow	-0.07 (estimated value)		
Bioaccumulative potential	Bioaccumulation unlikely.		
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	1		
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		
L		

Safety Data Sheet

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: 04/06/2013

Revision date: 21/11/2017

Supersedes: 09/03/2017

Version: 1.4

	Date of issue: 04/06/2013	Revision date: 21/11/2017	Supersedes: 09/03/2017	Version: 1.4
SECTION 1: Identification of th	e substance/mixtu	re and of the company	/undertaking	
1.1. Product identifier				
Product form	: Mixture			
[⊃] roduct name	: Amylose/Amy	/lopectin Assay Kit (Bottle 3)		
Product code	: K-AMYL (Bot	tle 3)		
1.2. Relevant identified uses of the	e substance or mixture	and uses advised against		
1.2.1. Relevant identified uses				
ndustrial/Professional use spec	: For professio	nal use only		
Jse of the substance/mixture	: Use as labora	atory reagent		
I.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.megazyme.c	om			
1.4. Emergency telephone number	er			
Emergency number	: +353 128612	20 [9 am to 5 pm GMT - Mond	lay to Friday]	
SECTION 2: Hazards identifica	tion			
2.1. Classification of the substan	ce or mixture			
Classification according to Regulation Skin corrosion/irritation, Category 1B Full text of H statements : see section 16	H314	1		
Adverse physicochemical, human hea Causes severe skin burns and eye dama		effects		
2.2. Label elements				
Labelling according to Regulation (EC Hazard pictograms (CLP)				
Signal word (CLP)	GHS05			
Signal word (CLP) Hazardous ingredients	: Danger	xide, caustic soda		
Hazard statements (CLP)		es severe skin burns and eye o	lamana	
Precautionary statements (CLP)		t breathe mist, spray.	amaye.	
Tecaulonary statements (CLF)	P264 - Wash P280 - Wear P301+P330+ P303+P361+ Rinse skin wi	hands thoroughly after handlin eye protection, protective cloth P331 - IF SWALLOWED: Rins P353 - IF ON SKIN (or hair): T th water		ninated clothing.
EUH-statements	: EUH032 - Co	ntact with acids liberates very	toxic gas.	
.3. Other hazards				
No additional information available				

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

Amylose/Amylopectin Assay Kit (Bottle 3) Safety Data Sheet

according to Regulation (EU) 2015/830

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

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 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 effects	s, both acute and delayed
Symptoms/effects after skin contact	: Irritation. Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.
4.3. Indication of any immediate medical a	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 subs	stance 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 meas	ures
6.1. Personal precautions, protective equ	ipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe 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 containment	it 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.
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Safety Data Sheet

according to Regulation (EU) 2015/830

6.4. Reference to other sec	tions
For further information refer to sec	tion 13.
SECTION 7: Handling and	storage
7.1. Precautions for safe ha	andling
Precautions for safe handling	Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray.
Hygiene 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 sto	rage, including any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool. Store locked up.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection			
8.1. Control parameters	i		
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



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical a	nd chemical properties
9.1. Information on bas	ic physical and chemical properties
Physical state	: Liquid
Colour	: No data available
Odour	: None.
12/03/2018	FN (Fnalish)

Safety Data Sheet

according to Regulation (EU) 2015/830

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

SECTION 10: Stability and reactivity				
10.1.	Reactivity			
The pro	The product is non-reactive under normal conditions of use, storage and transport.			
10.2.	Chemical stability			
Stable ι	Stable under normal conditions.			
10.3.	Possibility of hazardous reactions			
Contact with acids liberates very toxic gas.				
10.4.	Conditions to avoid			
None under recommended storage and handling conditions (see section 7).				
10.5.	Incompatible materials			
Acids.				

10.6. Hazardous decomposition products

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

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			
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			
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 information			
2.1. 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 assessme	nf		
No additional information available	in the second		
12.6. Other adverse effects			
No additional information available			
SECTION 13: Disposal consideration	ns		
13.1. Waste treatment methods			
Waste treatment methods	e 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 / A	DN		
ADR	ΙΑΤΑ		
ADR 14.1. UN number	IATA		
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	Natappliable		
Not applicable 14.5. Environmental hazards	Not applicable		
It.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

The following restrictions are applicable ac	cording to Annex XVII of the	REACH Regulation (EC) No 1907/2006:
----------------------------------------------	------------------------------	-------------------------------------

3(b) Substances or mixtures fulfilling the criteria for any of the follo	wing Amylose/Amylopectin Assay Kit (Bottle 3)
hazard classes or categories set out in Annex I to Regulation (EC)	No
1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexu	lal
function and fertility or on development, 3.8 effects other than nare	otic
effects, 3.9 and 3.10	

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Safety Data Sheet

according to Regulation (EU) 2015/830

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
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.



Safety Data Sheet

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1.1. Product identifier	the substance/mixture and of the company/undertaking
Due due tofe mus	
Product form	: Mixture
Product name	: Amylose/Amylopectin Assay Kit (Bottle 2)
Product code	: K-AMYL (Bottle 2)
.2. Relevant identified uses of	the substance or mixture and uses advised against
.2.1. Relevant identified uses	
ndustrial/Professional use spec	: For professional use only
Jse of the substance/mixture	: Use as laboratory reagent
I.2.2. Uses advised against	
No additional information available	
I.3. Details of the supplier of the	e safety data sheet
Megazyme Bray Business Park A98 YV29 Bray - Ireland F +353 12861220 - F +353 12861264 cs@megazyme.com - www.megazyme	.com
I.4. Emergency telephone numl	ber
Emergency number	: +353 12861220 [9 am to 5 pm GMT - Monday to Friday]
SECTION 2: Hazards identific	ation
.1. Classification of the substa	ince or mixture
Respiratory sensitisation, Category 1 Full text of H statements : see section 1	H334 I6
Adverse physicochemical, human he May cause allergy or asthma symptoms	
2.2. Label elements	
Labelling according to Regulation (E Hazard pictograms (CLP)	(C) No. 1272/2008 [CLP]
Signal word (CLP)	: Danger
lazardous ingredients	: Amyloglucosidase from Aspergillus niger, AMG; Amylase, α-, Aspergillus oryzae
lazard statements (CLP)	: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary statements (CLP)	 P261 - Avoid breathing mist. 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.
EUH-statements	: EUH032 - Contact with acids liberates very toxic gas.
	or inner packaging where the contents do not exceed 10ml
lazard pictograms (CLP)	
iazaiu piologialiis (ULF)	
Hazardous ingredients	_{GHS08} : Amyloglucosidase from Aspergillus niger, AMG; Amylase, α-, Aspergillus oryzae

Hazardous ingredients

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	1 - 5	Resp. Sens. 1, H334
Amylase, α-, Aspergillus oryzae	(CAS-No.) 9001-19-8 (EC-No.) 232-588-1	0.1 - 1	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 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	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	ibstance 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	quipment 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 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	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 storage			
7.1. Precautions for safe handli	ing		
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 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

		-
8.1.	Control	parameters

8.1. Control para	Imeters		
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. [In case of inadequate ventilation] wear respiratory protection.



Environmental exposure controls:

Avoid release to the environment.

SECT	ION 9: Physical ar	d chemical properties
9.1.	Information on basic	physical and chemical properties
Physica	ll state	: Liquid
Colour		: No data available
Odour		: None.
Odour t	hreshold	: No data available
pН		: No data available

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Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > °C
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

NU auu	
SECT	ION 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 ι	under normal conditions.
10.3.	Possibility of hazardous reactions
Contact	t with acids liberates very toxic gas.
10.4.	Conditions to avoid
None u	nder recommended storage and handling conditions (see section 7).
10.5.	Incompatible materials
Acids.	
10.6.	Hazardous decomposition products
Under r	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
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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SECTION 12: Ecological informatio	n
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	
No additional information available	
2.3. Bioaccumulative potential	
No additional information available	
I2.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessm	nent
No additional information available	
2.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	ons
I3.1. Waste treatment methods	
Vaste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Vaste treatment methods SECTION 14: Transport information	
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SECTION 14: Transport information n accordance with ADR / RID / IMDG / IATA / / ADR	1
SECTION 14: Transport information n accordance with ADR / RID / IMDG / IATA / / ADR 14.1. UN number	n ADN IATA
SECTION 14: Transport information n accordance with ADR / RID / IMDG / IATA / / ADR I4.1. UN number Not applicable	n ADN
SECTION 14: Transport information n accordance with ADR / RID / IMDG / IATA / / ADR I4.1. UN number Not applicable I4.2. UN proper shipping name	n ADN IATA
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SECTION 14: Transport information n accordance with ADR / RID / IMDG / IATA / / ADR 14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Transport hazard class(es) Not applicable 14.4. Packing group Not applicable 14.5. Environmental hazards	ADN IATA Not applicable
SECTION 14: Transport information n accordance with ADR / RID / IMDG / IATA / / ADR 14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Transport hazard class(es) Not applicable 14.4. Packing group Not applicable 14.5. Environmental hazards Not applicable	ADN IATA Not applicable
SECTION 14: Transport information n accordance with ADR / RID / IMDG / IATA / / ADR 14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Transport hazard class(es) Not applicable 14.4. Packing group Not applicable 14.5. Environmental hazards Not applicable	ADN IATA Not applicable
SECTION 14: Transport information n accordance with ADR / RID / IMDG / IATA / / ADR 14.1. UN number Not applicable 14.2. UN proper shipping name Not applicable 14.3. Transport hazard class(es) Not applicable 14.4. Packing group Not applicable 14.5. Environmental hazards Not applicable 14.6. Special precautions for user Overland transport	ADN IATA 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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

· ()	Amylose/Amylopectin Assay Kit (Bottle 2) - Amyloglucosidase from Aspergillus niger, AMG - Amylase, α-, Aspergillus oryzae
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Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:

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

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.



Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 04/06/2013 Revision Revision date: 20/11/2017

Version: 1.4

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ay cause allergy or asthm	pefore use. y precautions have been	n read and understood. out of the workplace. gloves
	May cause allergy or asthm Suspected of damaging fer Obtain special instructions I Do not handle until all safet Avoid breathing dust.	May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathir Suspected of damaging fertility or the unborn child. Obtain special instructions before use. Do not handle until all safety precautions have bee

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





Hazardous ingredients

: concanavalin A

2.3. Other hazards

No additional information available

SECT	SECTION 3: Composition/information on ingredients			
3.1.	Substances			
Not app	blicable			
3.2.	Mixtures			

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
concanavalin A	(CAS-No.) 11028-71-0 (EC-No.) 234-258-2	100	Resp. Sens. 1, H334 Skin Sens. 1, H317 Repr. 2, H361

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: IF exposed or concerned: Get medical advice/attention. 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 or rash occurs: Get medical advice/attention.
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 eff	ects, both acute and delayed
Symptoms/effects after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
4.3. Indication of any immediate media	cal attention and special treatment needed
Tract symptomatically	

Treat symptomatically.

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

SECTIC	ON 6: Accidental release meas	ures
6.1.	Personal precautions, protective equ	ipment and emergency procedures
	For non-emergency personnel cy procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

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ccorung	to Regulation (EO) 2015/830	
6.1.2.	For emergency responders	
Protecti	ive 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 re	elease to the environment.	
6.3.	Methods and material for contain	ment and cleaning up
Method	s for cleaning up	: Mechanically recover the product. Notify authorities if product enters sewers or public waters.
Other ir	nformation	: Dispose of materials or solid residues at an authorized site.
6.4.	Reference to other sections	
For furt	her information refer to section 13.	
SECT	ION 7: Handling and storage	
7.1.	Precautions for safe handling	
Precaut	tions for safe handling	: Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.
Hygiene	e measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace.
7.2.	Conditions for safe storage, incl	Iding any incompatibilities
Storage	e conditions	: Store locked up. Store in a well-ventilated place. Keep cool.
7.3.	Specific end use(s)	
No addi	itional information available	
SECT	ION 8: Exposure controls/pe	rsonal 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

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. [In case of inadequate ventilation] wear respiratory protection.



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Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemica 9.1. Information on basic physical and		
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	: > °C	
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

SECTIC	DN 10: Stability and reactivity			
10.1.	Reactivity			
The produ	uct is non-reactive under normal conditions of use, storage and transport.			
10.2.	Chemical stability			
Stable un	der normal conditions.			
10.3.	Possibility of hazardous reactions			
No dange	No dangerous reactions known under normal conditions of use.			
10.4.	Conditions to avoid			
None und	ler recommended storage and handling conditions (see section 7).			
10.5.	Incompatible materials			
No additio	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)	: 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. May cause an allergic skin reaction.			
Germ cell mutagenicity	: Not classified			
12/03/2018	EN (English) 34	34/36		

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12.2

Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological inf	ormation
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			
concanavalin A (11028-71-0)			
Persistence and degradability	Biodegradability in water: no data available.		
12.3. Bioaccumulative potential			
concanavalin A (11028-71-0)			
Bioaccumulative potential	Not established.		
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

Porsistance and degradability

13.1. Waste treatment methods

Waste treatment methods

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

SECTION 14: Transport information

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

ADR	ΙΑΤΑ	
14.1. UN number		
Not applicable	Not applicable	
14.2. UN proper shipping name		
Not applicable	Not applicable	
14.3. Transport hazard class(es)		
Not applicable	Not applicable	
14.4. Packing group		
Not applicable	Not applicable	
14.5. Environmental hazards		
Not applicable	Not applicable	
No supplementary information available		

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

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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:

Repr. 2	Reproductive toxicity, Category 2
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Sens. 1	Skin sensitisation, Category 1
H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H361	Suspected of damaging fertility or the unborn child.

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.