

Available Carbohydrates/Dietary Fiber Assay Kit

Kit Safety Information Sheet

Date of issue: 05/06/2013

Revision date: 07/09/2017

SECTION 1: Kit identification	
1.1. Kit identifier	
Product name Product code	: Available Carbohydrates/Dietary Fiber Assay Kit : K-ACHDF
1.2. Details of the supplier of the KIT sa	afety 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 ir	ndependently 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]
Available Carbohydrates/Dietary Fiber Assay Kit (Bottle 6)	Reagent	1	pcs (pieces)	Resp. Sens. 1, H334
Available Carbohydrates/Dietary Fiber Assay Kit (Bottle 5)	Reagent	1	pcs (pieces)	Resp. Sens. 1, H334
Available Carbohydrates/Dietary Fiber Assay Kit (Bottle 4)	Reagent	1	pcs (pieces)	Eye Dam. 1, H318 Resp. Sens. 1, H334
Available Carbohydrates/Dietary Fiber Assay Kit (Bottle 3)	Reagent	1	pcs (pieces)	Resp. Sens. 1, H334
Available Carbohydrates/Dietary Fiber Assay Kit (Bottle 1)	Buffer	1	pcs (pieces)	Skin Corr. 1C, H314 Repr. 1B, H360

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
Available Carbohydrates/Dietary Fiber Assay Kit (Bottle 9)	Reagent	1	pcs (pieces)
Available Carbohydrates/Dietary Fiber Assay Kit (Bottle 8)	Reagent	1	pcs (pieces)
Available Carbohydrates/Dietary Fiber Assay Kit (Bottle 7)	Reagent	1	pcs (pieces)
Available Carbohydrates/Dietary Fiber Assay Kit (Bottle 2)	Reagent	1	pcs (pieces)

SECTION 4: General advice

No data available

SECTION 5: Safe handling advice		
Environmental precautions Storage conditions	 Avoid release to the environment Store in a well-ventilated place. Keep cool. 	

Available Carbohydrates/Dietary Fiber Assay Kit

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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
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: 05/06/2013

Revision date: 22/01/2018 Supersedes: 14/03/2017 Version: 1.3 SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifier** 1.1. Product form : Mixture : Available Carbohydrates/Dietary Fiber Assay Kit (Bottle 2) Product name Product code : K-ACHDF (Bottle 2) 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 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** Classification of the substance or mixture 2.1. 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 safety practice. 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] **EUH-statements** : EUH032 - Contact with acids liberates very toxic gas. Labelling according to: exemption for inner packaging where the contents do not exceed 10ml No labelling required **Other hazards** 23 No additional information available **SECTION 3: Composition/information on ingredients Substances** 3.1. 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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according to Regulation (EU) 2015/830

4.2. No addit	Most important symptoms and effect ional information available	s, both acute and delayed			
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.	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 re	lease to the environment.				
6.3.	Methods and material for containment	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				
	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	g any incompatibilities			
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	nal protection			
8.1.	Control parameters				
No addit	ional information available				
8.2.	Exposure controls				
Approp	iate engineering controls:				
	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

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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	Protection for Solid particles	EN 143, EN 149



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and	I chemical properties	
Physical state	: Solid	
Colour	: light yellow.	
Odour	: None.	
Odour threshold	: No data available	
рН	: 7.6	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: Not applicable	
Boiling point	: 256 °C	
Flash point	: > 135 °C	
Auto-ignition temperature	: 480 °C	
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	
Density	: 1.03 g/m ³	
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	
0.2 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.

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according to Regulation (EU) 2015/830

10.3.	Possibility of hazardous reactions				
Contact	Contact with acids liberates very toxic gas.				
10.4.	Conditions to avoid				
None ur	nder 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 informat	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
	pH: 7.6
Serious eye damage/irritation	: Not classified pH: 7.6
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	
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	nt
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	IS
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 / AI	
ADR	IATA
14.1. UN number Not applicable	Not applicable
	Hot applicable

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according to Regulation (EU) 2015/830

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

14.6. Special precautions for user

- Overland transport

Not applicable

- Air transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

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:

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.



Available Carbohydrates/Dietary Fiber Assay Kit (Bottle 6) Safety Data Sheet

according to Regulation (EU) 2015/830

	according to Regulation (EU) 2 Date of issue: 05/06/2013	2015/830 Revision date: 13/11/2017	Supersedes: 14/03/2017	Version: 1.3
SECTION 1: Identification o			•	
1.1. Product identifier		e and of the company		
Product form	: Mixture			
Product name		oohydrates/Dietary Fiber Assa	v Kit (Bottle 6)	
Product code	: K-ACHDF (Bo		, ()	
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	41			
1.3. Details of the supplier of	the safety data sheet			
Manufacturer Megazyme Bray Business Park A98 YV29 Bray - Ireland T +353 12861220 - F +353 12861264 cs@megazyme.com - www.megazym				
1.4.Emergency telephone nuEmergency number		0 [9 am to 5 pm GMT - Mond	ay to Friday]	
SECTION 2: Hazards identif	ication			
2.1. Classification of the subs				
Classification according to Regula	tion (EC) No. 1272/2008 ICL	Pl		
Respiratory sensitisation, Category 1		•		
Full text of H statements : see section				
Adverse physicochemical, human May cause allergy or asthma sympto				
2.2. Label elements				
Labelling according to Regulation	(EC) No. 1272/2008 [CLP]			
Hazard pictograms (CLP)				
	GHS08	•		
Signal word (CLP)	: Danger			
Hazardous ingredients	•	alpha), maltase; Galactosidas	e, β-	
Hazard statements (CLP)	· ·	1).	oms or breathing difficulties if i	inhaled.
Precautionary statements (CLP)	P261 - Avoid b P284 - [In cas P304+P340 - P342+P311 - P501 - Dispos	oreathing dust. e of inadequate ventilation] we IF INHALED: Remove person If experiencing respiratory syn	ear respiratory protection. to fresh air and keep comforta nptoms: Call a doctor, a POIS ardous or special waste colled	able for breathing. ON CENTER.
Labelling according to: exemption		•	-	
Hazard pictograms (CLP)		•		
Herenderer in mediente	GHS08	ala ha) malta sa Oala sta sista	- 0	

Hazardous ingredients

: Glucosidase (alpha), maltase; Galactosidase, β-

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]
Galactosidase, β-	(CAS-No.) 9031-11-2 (EC-No.) 232-864-1	60 - 70	Resp. Sens. 1, H334
Glucosidase (alpha), maltase	(CAS-No.) 9001-42-7 (EC-No.) 232-604-7	30 - 40	Resp. Sens. 1, H334

Full text of H-statements: see section 16

SECTION 4: First aid meas	ures
4.1. Description of first aid r	neasures
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 contac	t : Wash skin with plenty of water.
First-aid measures after eye contac	t : 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 symptom	ms 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 immed	liate medical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting m	easures
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam.
5.2. Special hazards arising	from the substance or mixture
Hazardous decomposition products fire	in case of : 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 rel	ease measures
6.1. Personal precautions, p	rotective equipment and emergency procedures
6.1.1. For non-emergency per	sonnel
Emergency procedures	: Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapours/spray.
6.1.2. For emergency respond	lers
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 precaution	ons
Avoid release to the environment.	
6.3. Methods and material for	or containment 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 sect	ions
For further information refer to secti	on 13.

Safety Data Sheet

according to Regulation (EU) 2015/830

SECTION 7: Handling and storage				
7.1. Precautions for safe handling				
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.			
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.			
7.2. Conditions for safe storage, includi	ng 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				
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 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	Information on basic physical and chemical properties		
Physical state	: Solid		
Colour	: white.		
Odour	: None.		
Odour threshold	: No data available		
pH	: No data available		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: No data available		
18/02/2010	EN (English)	10/52	

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according to Regulation (EU) 2015/830

0 0 ()	
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Solubility	: Soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable

9.2. Other information

No additional information available

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

10.6. Hazardous decomposition products

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

11.1. Information on toxicological	effects
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological int	formation
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
18/02/2010	EN (English) 11/52

Safety Data Sheet

ccording to Regulation (EU) 2015/830				
Chronic aquatic toxicity : Not class	sified			
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 sup	pplementary information available			
14.6. Special precautions for user				
14.0. Opecial precautions for user				

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:

Safety Data Sheet

according to Regulation (EU) 2015/830

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.	Resp. Sens. 1 Respiratory sensitisation, Category 1		
	Н	1334	

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: 05/06/2013 Revision date: 23/01/2018

Supersedes: 14/03/2017 Version: 1.3 SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifier** 1.1. Product form : Mixture : Available Carbohydrates/Dietary Fiber Assay Kit (Bottle 7) Product name Product code : K-ACHDF (Bottle 7) 12 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 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** Classification of the substance or mixture 2.1. 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 safety practice. 2.2. **Label elements** Labelling according to Regulation (EC) No. 1272/2008 [CLP] **EUH-statements** : EUH208 - Contains Kinase (phosphorylating), hexo-, Hexokinase. May produce an allergic reaction EUH210 - Safety data sheet available on request. EUH032 - Contact with acids liberates very toxic gas. Labelling according to: exemption for inner packaging where the contents do not exceed 10ml No labelling required **Other hazards** 23 No additional information available SECTION 3: Composition/information on ingredients Substances 3.1. Not applicable **Mixtures** 3.2. 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 **Description of first aid measures** 4.1.

First-aid measures general

: Call a poison center or a doctor if you feel unwell.

Safety Data Sheet

according to Regulation (EU) 2015/830

according to Regulation (EU) 2015/830	
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 ec	quipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Avoid breathing mist, spray, vapours.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containme	ent 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.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid breathing 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, includi	ng 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/pers	onal 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

Safety Data Sheet

according to Regulation (EU) 2015/830

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

Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

Device	Filter type	Condition	Standard
Dust mask	Туре Р1	Protection for Liquid particles	EN 143, EN 149



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemica	Il properties
9.1. Information on basic physical and	d chemical properties
Physical state	: Liquid
Colour	: milky.
Odour	: characteristic.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	

No additional information available

Safety Data Sheet

according to Regulation (EU) 2015/830

SECTI	SECTION 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	Contact with acids liberates very toxic gas.			
10.4.	Conditions to avoid			
None un	None under recommended storage and handling conditions (see section 7).			
10.5.	Incompatible materials			
Acids.				
10.6.	Hazardous decomposition products			
Under no	Under normal conditions of storage and use, hazardous decomposition products should not be produced.			

SECTION 11: Toxicological infe	ormation	
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	: 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	

CCTION 42. Ecological informati	
ECTION 12: Ecological informati	ion
2.1. Toxicity	
cology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
cute aquatic toxicity	: Not classified
hronic aquatic toxicity	: Not classified
2.2. Persistence and degradability	
o additional information available	
2.3. Bioaccumulative potential	
o additional information available	
2.4. Mobility in soil	
o additional information available	
2.5. Results of PBT and vPvB assess	ment
o additional information available	
2.6. Other adverse effects	
o additional information available	
ECTION 13: Disposal considerat	ions
3.1. Waste treatment methods	
/aste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Safety Data Sheet

according to Regulation (EU) 2015/830

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

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:

EUH032	Contact with acids liberates very toxic gas.	
EUH208	Contains . May produce an allergic reaction.	
EUH210	Safety data sheet available on request.	

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: 05/06/2013 Revision date: 23/01/2018

Supersedes: 14/03/2017 Version: 1.3 SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifier** 1.1. Product form : Mixture : Available Carbohydrates/Dietary Fiber Assay Kit (Bottle 8) Product name Product code : K-ACHDF (Bottle 8) 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 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** Classification of the substance or mixture 2.1. 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 safety practice. 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] **EUH-statements** : EUH032 - Contact with acids liberates very toxic gas. Labelling according to: exemption for inner packaging where the contents do not exceed 10ml No labelling required **Other hazards** 23 No additional information available **SECTION 3: Composition/information on ingredients Substances** 3.1. Not applicable 3.2. **Mixtures**

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.

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II

Safety Data Sheet

according to Regulation (EU) 2015/830

4.2. No additi	4.2. Most important symptoms and effects, both acute and delayed No additional information available				
4.3. Indication of any immediate medical attention and special treatment needed					
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	ipment and emergency procedures			
6.1.1. Emerger	For non-emergency personnel acy procedures	: Ventilate spillage area.			
6.1.2. Protectiv	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. Avoid rel	Environmental precautions ease to the environment.				
6.3.	Methods and material for containme	nt and cleaning up			
Methods	for cleaning up	: Take up liquid spill into absorbent material.			
Other 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				
	ons for safe handling measures	 Ensure good ventilation of the work station. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. 			
7.2.	Conditions for safe storage, includin	g any incompatibilities			
Storage	conditions	: Store in a well-ventilated place. Keep cool.			
7.3.	Specific end use(s)				
No additi	ional information available				
SECTI	ON 8: Exposure controls/perso	onal protection			
8.1.	Control parameters				
No additi	ional information available				
8.2.	8.2. Exposure controls				
Appropriate engineering controls:					
Ensure g	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	Protection for Liquid particles	EN 143, EN 149



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Colour	: milky.
Odour	: characteristic.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	
Ne edditional information evaluates	

No additional information available

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

SECTION 10: Stability and reactivity

Contact with acids liberates very toxic gas.

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

Acids.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological infe	ormation
11.1. Information on toxicological	
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 inform	ation
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	v
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	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	IATA	
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	- 1 C
SECTION 15' Redulator	/ Information
of the second seco	

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:	
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: 05/06/2013

Revision date: 23/01/2018 Supersedes: 14/03/2017 Version: 1.3 SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifier** 1.1. Product form : Mixture : Available Carbohydrates/Dietary Fiber Assay Kit (Bottle 9) Product name Product code : K-ACHDF (Bottle 9) 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 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** Classification of the substance or mixture 2.1. 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 safety practice. 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] **EUH-statements** : EUH032 - Contact with acids liberates very toxic gas. Labelling according to: exemption for inner packaging where the contents do not exceed 10ml No labelling required **Other hazards** 23 No additional information available **SECTION 3: Composition/information on ingredients Substances** 3.1. 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. No additi	2. Most important symptoms and effects, both acute and delayed o additional information available				
4.3.	4.3. Indication of any immediate medical attention and special treatment needed				
Treat syr	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	ipment and emergency procedures			
6.1.1. Emerger	For non-emergency personnel acy procedures	: Ventilate spillage area.			
6.1.2. Protectiv	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. Avoid rel	Environmental precautions ease to the environment.				
6.3.	Methods and material for containme	nt and cleaning up			
Methods	for cleaning up	: Take up liquid spill into absorbent material.			
Other 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				
	ons for safe handling measures	 Ensure good ventilation of the work station. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. 			
7.2.	Conditions for safe storage, includin	g any incompatibilities			
Storage	conditions	: Store in a well-ventilated place. Keep cool.			
7.3.	Specific end use(s)				
No additi	ional information available				
SECTI	ON 8: Exposure controls/perso	onal protection			
8.1.	Control parameters				
No additi	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	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	Protection for Liquid particles	EN 143, EN 149



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical	l properties
9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Colour	: Colourless.
Odour	: characteristic.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	
No additional information available	

No additional information available

SECTION 10: Stability and reactivity 10.1. Reactivity The product is non-reactive under normal conditions of use, storage and trans

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

Contact with acids liberates very toxic gas.

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

Acids.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological info	rmation
11.1. Information on toxicological e	
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	ation
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 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	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	IATA
14.4. Packing group	
Not applicable	Not applicable
14.5. Environmental hazards	
Not applicable	Not applicable
No supplementary i	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 informatio	
SECTION 15: Regulatory informatio	n

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:	
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.



Available Carbohydrates/Dietary Fiber Assay Kit (Bottle 5) Safety Data Sheet

according to Regulation (EU) 2015/830

	Date of issue: 05/06/2013	Revision date: 07/09/2017	Supersedes: 14/03/2017	Version: 1.3
SECTION 1: Identification			•	
1.1. Product identifier			rundentaking	
Product form	: Mixture			
Product name	: Available Car	bohydrates/Dietary Fiber Assa	v Kit (Bottle 5)	
Product code	: K-ACHDF (B			
I.2. Relevant identified use	es of the substance or mixture	and uses advised against		
1.2.1. Relevant identified use	es			
Industrial/Professional use spec	: For professio	nal use only		
Jse of the substance/mixture	Use as labora	atory reagent		
1.2.2. Uses advised against				
No additional information available	9			
1.3. Details of the supplier	of the safety data sheet			
Megazyme Bray Business Park A98 YV29 Bray - Ireland T +353 12861220 - F +353 12861 cs@megazyme.com - www.mega				
1.4. Emergency telephone	·			
Emergency number		20 [9 am to 5 pm GMT - Mond	ay to Friday]	
SECTION 2: Hazards iden	tification			
		-P1		
Classification according to Reg Respiratory sensitisation, Categor Full text of H statements : see sec	ulation (EC) No. 1272/2008 [Cl y 1 H334 tion 16			
Classification according to Reg Respiratory sensitisation, Categor Full text of H statements : see sec	ulation (EC) No. 1272/2008 [Cl y 1 H334 tion 16 an health and environmental of	effects		
2.1. Classification of the su Classification according to Reg Respiratory sensitisation, Categor Full text of H statements : see sec Adverse physicochemical, hum May cause allergy or asthma symp 2.2. Label elements	ulation (EC) No. 1272/2008 [Cl y 1 H334 tion 16 an health and environmental of	effects		
Classification according to Reg Respiratory sensitisation, Categor Full text of H statements : see sec Adverse physicochemical, hum May cause allergy or asthma sym 2.2. Label elements Labelling according to Regulation	ulation (EC) No. 1272/2008 [CI y 1 H334 tion 16 an health and environmental of ptoms or breathing difficulties if on (EC) No. 1272/2008 [CLP]	effects		
Classification according to Reg Respiratory sensitisation, Categor Full text of H statements : see sec Adverse physicochemical, hum May cause allergy or asthma sym 2.2. Label elements Labelling according to Regulation Hazard pictograms (CLP)	ulation (EC) No. 1272/2008 [CI y 1 H334 tion 16 an health and environmental of ptoms or breathing difficulties if on (EC) No. 1272/2008 [CLP]	effects		
Classification according to Reg Respiratory sensitisation, Categor Full text of H statements : see sec Adverse physicochemical, hum May cause allergy or asthma symp 2.2. Label elements Labelling according to Regulation Hazard pictograms (CLP)	ulation (EC) No. 1272/2008 [CI y 1 H334 tion 16 an health and environmental of ptoms or breathing difficulties if on (EC) No. 1272/2008 [CLP] : : GHS08 : Danger	effects inhaled.		
Classification according to Reg Respiratory sensitisation, Categor Full text of H statements : see sec Adverse physicochemical, hum May cause allergy or asthma symp 2.2. Label elements Labelling according to Regulation Hazard pictograms (CLP) Signal word (CLP) Hazardous ingredients	ulation (EC) No. 1272/2008 [CI y 1 H334 tion 16 an health and environmental of ptoms or breathing difficulties if on (EC) No. 1272/2008 [CLP] : : GHS08 : Danger : Glucoamylas	e e	ms or breathing difficulties if i	inhaled
Classification according to Reg Respiratory sensitisation, Categor Full text of H statements : see sec Adverse physicochemical, hum May cause allergy or asthma sym	ulation (EC) No. 1272/2008 [CI y 1 H334 tion 16 an health and environmental of ptoms or breathing difficulties if on (EC) No. 1272/2008 [CLP] : : : : : : : : : : : : : : : : : : :	effects inhaled.	ear respiratory protection. to fresh air and keep comfort nptoms: Call a doctor, a POIS hazardous or special waste o	able for breathing

SECT	SECTION 3: Composition/information on ingredients				
3.1.	Substances				
Not ap	plicable				
18/02/20	019	EN (English)		29/52	

Safety Data Sheet

according to Regulation (EU) 2015/830

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Glucoamylase	(CAS-No.) 9032-08-0 (EC-No.) 232-877-2	5 - 10	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

SECTIO	ON 4: First aid measures		
4.1.	Description of first aid measures		
First-aid ı	measures general	:	Call a poison center or a doctor if you feel unwell.
First-aid ı	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 ı	measures after skin contact	:	Wash skin with plenty of water.
First-aid ı	measures after eye contact	:	Rinse eyes with water as a precaution.
First-aid ı	measures after ingestion	:	Call a poison center or a doctor if you feel unwell.
4.2.	Most important symptoms and effect	ts,	both acute and delayed
Symptom	ns/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 syn	nptomatically.		
SECTIO	ON 5: Firefighting measures		
5.1.	Extinguishing media		
Suitable e	extinguishing media	:	Water spray. Dry powder. Foam. Carbon dioxide.
5.2.	Special hazards arising from the sub	ost	ance or mixture
Hazardou fire	as decomposition products in case of	:	Toxic fumes may be released.
5.3.	Advice for firefighters		
Protection	n during firefighting	:	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTIO	ON 6: Accidental release meas	sui	res
6.1.	Personal precautions, protective equ	uip	ment and emergency procedures
6.1.1.	For non-emergency personnel		
Emergen	cy procedures	:	Ventilate spillage area. Avoid breathing spray, mist.
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 rele	ease to the environment.		
6.3.	Methods and material for containme	nt	and cleaning up
Methods	for cleaning up	:	Take up liquid spill into absorbent material.
Other info	ormation	:	Dispose of materials or solid residues at an authorized site.
6.4.	Reference to other sections		
For furthe	er information refer to section 13.		
SECTIO	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. Avoid breathing spray, mist.
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	ng a	any incompatibilities
Storage of	conditions	:	Store in a well-ventilated place. Keep cool.
18/02/2019	9		EN (English) 30/52

Safety Data Sheet

according to Regulation (EU) 2015/830

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection							
8.1. Control parameters	8.1. Control parameters						
sodium azide (26628-22-8)	sodium azide (26628-22-8)						
EU	Local name	Sodium azide					
EU	IOELV TWA (mg/m ³)	0.1 mg/m ³					
EU	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 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 and chemical properties		
9.1. Information on basic physical an	nd chemical properties	
Physical state	: Liquid	
Colour	: Colourless.	
Odour	: characteristic.	
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	

Safety Data Sheet

according to Regulation (EU) 2015/830

Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTI	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	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 inform	ation
11.1. Information on toxicological effect	ts
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

Available Carbohydrates/Dietary Fiber Assay Kit (Bottle 5) Safety Data Sheet

according to Regulation (EU) 2015/830		
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/c	ontainer 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	
Not applicable No supplementary in		
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 IB	C 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 RE		
3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	Glucoamylase	
3(b) Substances or mixtures fulfilling the criteria for any of the following 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 sexual function and fertility or on development, 3.8 effects other than narcotic	Available Carbohydrates/Dietary Fiber Assay Kit (Bottle 5) - Glucoamylase	
effects, 3.9 and 3.10		
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.



Available Carbohydrates/Dietary Fiber Assay Kit (Bottle 4) Safety Data Sheet

according to Regulation (EU) 2015/830

	Date of issue: 05/06/2013	Revision date: 07/09/2017	Supersedes: 14/03/2017	Version: 1.3	
SECTION 1: Identification o	f the substance/mixtu	re and of the company	/undertaking		
1.1. Product identifier					
Product form	: Mixture				
Product name	: Available Car	oohydrates/Dietary Fiber Assa	y Kit (Bottle 4)		
Product code	duct code : K-ACHDF (Bottle 4)				
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	•			
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 12861264 <u>cs@megazyme.com</u> - <u>www.megazym</u>	4 ne.com				
1.4. Emergency telephone nu Emergency number		20 [9 am to 5 pm GMT - Mond	av to Fridayl		
SECTION 2: Hazards identif	ication	- (.,		
2.1. Classification of the subs	stance or mixture				
Classification according to Regula Serious eye damage/eye irritation, Ca		P]			
1 Respiratory sensitisation, Category 1	H334				
Full text of H statements : see section	n 16				
Adverse physicochemical, human No additional information available	health and environmental e	ffects			
2.2. Label elements					
Labelling according to Regulation Hazard pictograms (CLP)	(EC) No. 1272/2008 [CLP]				
Circul word (OLD)	GHS05	GHS08			
Signal word (CLP)	: Danger				
Hazardous ingredients	: subtilisin : H318 - Cause	s serious evo domoco			
Hazard statements (CLP)		s serious eye damage. ause allergy or asthma sympto	oms or breathing difficulties if i	nhaled.	
Precautionary statements (CLP)	P261 - Avoid P280 - Wear P284 - [In cas P304+P340 - P305+P351+I contact lense	breathing spray, mist. protective gloves, protective cloped of inadequate ventilation] we IF INHALED: Remove person 2338 - IF IN EYES: Rinse caut s, if present and easy to do. Co liately call a POISON CENTRE	othing, eye protection ear respiratory protection. to fresh air and keep comforta iously with water for several n ontinue rinsing.	able for breathing.	
EUH-statements	: EUH032 - Co	ntact with acids liberates very	toxic gas.		

Safety Data Sheet

according to Regulation (EU) 2015/830

Labelling according to: exemption for	or inner packaging where the contents do not exceed 10ml
Hazard pictograms (CLP)	
	GHS08 GHS05
Hazardous ingredients	: subtilisin
2.3. Other hazards	

No additional information available

SECTION 3: Composition/information on ingredients					
3.1.	Substances				
Not applicable					
3.2.	Mixtures				
Nome		Draduct identifier	0/	Close if is stight as a second in a to	

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
subtilisin	(CAS-No.) 9014-01-1 (EC-No.) 232-752-2 (EC Index-No.) 647-012-00-8	5 - 10	Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 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

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 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	: 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.					
Symptoms/effects after eye contact	: Serious damage to eyes.					
4.3. Indication of any immediate medica	Indication of any immediate medical attention and special treatment needed					
Treat symptomatically.						
SECTION 5: Firefighting measures						
5.1. Extinguishing media						
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.					
5.2. Special hazards arising from the su	2. Special hazards arising from the substance or mixture					
Hazardous decomposition products in case of fire	: Toxic fumes may be released.					
5.3. Advice for firefighters						
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.					
SECTION 6: Accidental release measures						
6.1. Personal precautions, protective equipment and emergency procedures						
6.1.1. For non-emergency personnel						
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing spray, mist.					

Safety Data Sheet

according to Regulation (EU) 2015/830

6.1.2.	For emergency responders	
Protecti	ve 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	nment and cleaning up
Method	s for cleaning up	: Take up liquid spill into absorbent material.
Other in	nformation	: Dispose of materials or solid residues at an authorized site.
6.4.	Reference to other sections	
For furth	her information refer to section 13.	
SECT	ION 7: Handling and storage	<u>)</u>
7.1.	Precautions for safe handling	
Precaut	tions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing spray, mist.
Hygiene	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, incl	uding any incompatibilities
Storage	conditions	: 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	prisonal protection
8.1.	Control parameters	
0.1.	oontroi 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:

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

Device	Filter type	Condition	Standard
Dust mask	Туре Р1	Protection for Liquid particles	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	: Liquid				
Colour	: Colourless.				
Odour	: characteristic.				
Odour threshold	: No data available				
рН	: No data available				
Relative evaporation rate (butylacetate=1)	: No data available				
Melting point	: Not applicable				
Freezing point	: No data available				
Boiling point	: No data available				
Flash point	: No data available				
Auto-ignition temperature	: No data available				
Decomposition temperature	: No data available				
Flammability (solid, gas)	: Not applicable				
Vapour pressure	: No data available				
Relative vapour density at 20 °C	: No data available				
Relative density	: No data available				
Solubility	: Soluble in water.				
Log Pow	: No data available				
Viscosity, kinematic	: No data available				
Viscosity, dynamic	: No data available				
Explosive properties	: No data available				
Oxidising properties	: No data available				
Explosive limits	: No data available				
9.2. Other information					
No additional information available					
SECTION 10: Stability and reactivity	1				
10.1. Reactivity					
The product is non-reactive under normal condi-	tions 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 co	onditions of use.				

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information			
11.1.	Information on toxicological	effects	
Acute to	oxicity (oral)	: Not classified	
Acute to	oxicity (dermal)	: Not classified	
Acute to	oxicity (inhalation)	: Not classified	

Safety Data Sheet

according to Regulation (EU) 2015/830

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye damage.
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	h				
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					
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 consideratio	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					
ADR	ΙΑΤΑ				
14.1. UN number					
Not applicable	Not applicable				
14.2. UN proper shipping name Not applicable Image: Comparison of the second	Not applicable				
14.3. Transport hazard class(es)					
Not applicable	Not applicable				
14.4. Packing group					
Not applicable	Not applicable				
14.5. Environmental hazards					
Nisé suu Reskis					

Not applicable

No supplementary information available

14.6. Special precautions for user

- Overland transport

Not applicable

Not applicable

- Air transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

Safety Data Sheet

according to Regulation (EU) 2015/830

SECTION 15: Regulatory information

15.1.	Safety, healt	th and environment	al regulations/legislatio	on specific for the substance	or mixture
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15.1.1. EU-Regulations

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

3(b) Substances or mixtures fulfilling the criteria for any of the following 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 sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Available Carbohydrates/Dietary Fiber Assay Kit (Bottle 4)
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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 additional information available

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
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
H300	Fatal if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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.



Available Carbohydrates/Dietary Fiber Assay Kit (Bottle 3) Safety Data Sheet

according to Regulation (EU) 2015/830

	Date of issue: 05/06/2013	Revision date: 07/09/2017	Supersedes: 14/03/2017	Version: 1.3
SECTION 1: Identification of	of the substance/mixture	e and of <u>the company</u> /	undertaking	
1.1. Product identifier				
Product form	: Mixture			
Product name	: Available Carbo	ohydrates/Dietary Fiber Assa	y Kit (Bottle 3)	
Product code	: K-ACHDF (Bot	tle 3)		
1.2. Relevant identified uses	of the substance or mixture a	and uses advised against		
1.2.1. Relevant identified uses				
Industrial/Professional use spec	: For professiona	al use only		
Use of the substance/mixture	: Use as laborate	ory 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.megazy				
1.4. Emergency telephone nu				
Emergency number	: +353 12861220) [9 am to 5 pm GMT - Monda	ay to Friday]	
SECTION 2: Hazards identi	fication			
2.1. Classification of the sub	stance or mixture			
Respiratory sensitisation, Category Full text of H statements : see section	n 16	rects		
May cause allergy or asthma sympto				
2.2. Label elements				
Labelling according to Regulation Hazard pictograms (CLP)				
Signal word (CLP)	GHS08 : Danger			
Hazardous ingredients	: Danger : amγlase, α-			
0		ise alleray or asthma sympto	ms or breathing difficulties if i	nhaled
Hazard statements (CLP) Precautionary statements (CLP)		reathing dust/fume/gas/mist/v	e e	
	P284 - [In case P304+P340 - If P342+P311 - If P501 - Dispose	of inadequate ventilation] we FINHALED: Remove person experiencing respiratory sym	ear respiratory protection. to fresh air and keep comforta ptoms: Call a POISON CENT ardous or special waste collec	ER or doctor.
Labelling according to: exemption	n for inner packaging where t	ne contents do not exceed	10ml	
Hazard pictograms (CLP)				

Hazardous ingredients

: amylase, α-

GHS08

Safety Data Sheet

according to Regulation (EU) 2015/830

2.3. Other hazards

No additional information available

SECT	ION 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]
amylase, α-	(CAS-No.) 9000-90-2 (EC-No.) 232-565-6 (EC Index-No.) 647-015-00-4	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.
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	isures
6.1. Personal precautions, protective ed	quipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Avoid breathing spray, mist.
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	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	

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according to Regulation (EU) 2015/830

CECTION 7. Headling and starses	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid breathing spray, mist.
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	g 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/perso	onal 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	Droplet	With side shields	EN 166

Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

Device	Filter type	Condition	Standard
Dust mask	Туре Р1	Protection for Liquid particles	EN 143, EN 149



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	: Liquid	
Colour	: light yellow.	
Odour	: characteristic.	
Odour threshold	: No data available	
рН	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: Not applicable	
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5 5 X ,	
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
Density	: 1.25 g/m³
Solubility	: Soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

No addi				
SECT	ION 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	under normal conditions.			
10.3.	Possibility of hazardous reactions			
No dan	No dangerous reactions known under normal conditions of use.			
10.4.	Conditions to avoid			
None u	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
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

SECTI	ON 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.

Available Carbohydrates/Dietary Fiber Assay Kit (Bottle 3) Safety Data Sheet

Acute aquatic toxicity : Not classified Chronic 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 inst	ructions.
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	
14.4. Packing group	
Not applicable Not applicable	
Not applicable Not applicable 14.5. Environmental hazards Not applicable Not applicable	
14.5. Environmental hazards	
14.5. Environmental hazards Not applicable Not applicable No supplementary information available	
14.5. Environmental hazards Not applicable Not supplementary information available 14.6. Special precautions for user	
14.5. Environmental hazards Not applicable Not applicable No supplementary information available 14.6. Special precautions for user - Overland transport	
14.5. Environmental hazards Not applicable Not applicable No supplementary information available 14.6. Special precautions for user	
14.5. Environmental hazards Not applicable Not applicable No supplementary information available 14.6. Special precautions for user Overland transport Not applicable - Air transport	
14.5. Environmental hazards Not applicable Not applicable No supplementary information available 14.6. Special precautions for user - Overland transport Not applicable Vot applicable	
14.5. Environmental hazards Not applicable Not applicable 14.6. Special precautions for user - Overland transport Not applicable Not applicable - Air transport Not applicable 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	
14.5. Environmental hazards Not applicable Not applicable Not applicable 14.6. Special precautions for user Image: 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	
14.5. Environmental hazards Not applicable Not applicable 14.6. Special precautions for user 14.6. Special precautions for user - Overland transport Not applicable - Air transport Air transport Not applicable Image: Air transport Not applicable Second the IBC Code Not applicable Second the IBC Code Not applicable Image: Air transport in bulk according to Annex II of Marpol and the IBC Code Not applicable Second the IBC Code Not applicable Image: Air transport in bulk according to Annex II of Marpol and the IBC Code Not applicable Second the IBC Code Not applicable Image: Air transport in bulk according to Annex II of Marpol and the IBC Code Not applicable Image: Air transport in bulk according to Annex II of Marpol and the IBC Code Not applicable Image: Air transport in bulk according to Annex II of Marpol and the IBC Code Not applicable Image: Air transport in bulk according to Annex II of Marpol and the IBC Code Not applicable Image: Air transport in bulk according to Annex II of Marpol and the IBC Code Not applicable Image: Air transport in bulk according to Annex II of Marpol and the IBC Code	
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14.5. Environmental hazards Not applicable Not applicable 14.6. Special precautions for user - Overland transport Not applicable Not applicable - Air transport Not applicable It for the substance or mixture 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	
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 - 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 according to Annex XVII of the REACH Regulation (EC) No 1907/2006:	
14.5. Environmental hazards Not applicable Not applicable 14.6. Special precautions for user - Overland transport Not applicable Not applicable - Air transport Not applicable - Air 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: 3. Liquid substances or mixtures which are regarded as dangerous in amylase, α-	
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 - 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 according to Annex XVII of the REACH Regulation (EC) No 1907/2006:	
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 - 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 according to Annex XVII of the REACH Regulation (EC) No 1907/2006: 3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1907/2008 3(b) Substances or mixtures fulfilling the criteria for any of the following Available Carbohydrates/Dietary Fiber Assay Kit (Bottle	3) - amylase,
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 - Air transport Not applicable 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code 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: 3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008 3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No Available Carbohydrates/Dietary Fiber Assay Kit (Bottle according classes or categories set out in Annex I to Regulation (EC) No<	3) - amylase,
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 - Air transport Not applicable 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code 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: 3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1927/2008 3(b) Substances or mixtures fulfilling the criteria for any of the following Available Carbohydrates/Dietary Fiber Assay Kit (Bottle	3) - amylase,

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:

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.



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SECTION 1: Identification o		1/2018 Supersedes: 14/03/2017 Version: 1.3			
	f the substance/mixture and of the cor	npany/undertaking			
1.1. Product identifier					
Product form	: Mixture				
Product name	: Available Carbohydrates/Dietary Fil	ber Assay Kit (Bottle 1)			
Product code : K-ACHDF (Bottle 1)					
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 1286126 <u>cs@megazyme.com</u> - <u>www.megazyr</u>					
1.4. Emergency telephone nu	mber				
Emergency number	: +353 12861220 [9 am to 5 pm GM]	Γ - Monday to Friday]			
SECTION 2: Hazards identif	cation				
2.1. Classification of the subs					
Reproductive toxicity Category 1B	H360				
Full text of H statements : see section					
Full text of H statements : see section Adverse physicochemical, human May damage fertility or the unborn ch	16 health and environmental effects				
2.2. Label elements	n 16 health and environmental effects ild. Causes severe skin burns and eye damage.				
Full text of H statements : see section Adverse physicochemical, human May damage fertility or the unborn ch 2.2. Label elements Labelling according to Regulation	n 16 health and environmental effects ild. Causes severe skin burns and eye damage.				
Full text of H statements : see section Adverse physicochemical, human May damage fertility or the unborn ch 2.2. Label elements Labelling according to Regulation Hazard pictograms (CLP)	the alth and environmental effects ild. Causes severe skin burns and eye damage. (EC) No. 1272/2008 [CLP]				
Full text of H statements : see section Adverse physicochemical, human May damage fertility or the unborn of 2.2. Label elements Labelling according to Regulation Hazard pictograms (CLP) Signal word (CLP)	the alth and environmental effects ild. Causes severe skin burns and eye damage. (EC) No. 1272/2008 [CLP] : : : : : : : : : : : : :				
Full text of H statements : see section Adverse physicochemical, human May damage fertility or the unborn of 2.2. Label elements Labelling according to Regulation Hazard pictograms (CLP) Signal word (CLP) Hazardous ingredients	health and environmental effects ild. Causes severe skin burns and eye damage. (EC) No. 1272/2008 [CLP] : : GHS05 : : Danger				
Full text of H statements : see section Adverse physicochemical, human May damage fertility or the unborn ch	 the alth and environmental effects iid. Causes severe skin burns and eye damage. (EC) No. 1272/2008 [CLP] <i>i i i i i i i i i i</i>	unborn child. before use. / precautions have been read and understood. er handling.			
Full text of H statements : see section Adverse physicochemical, human May damage fertility or the unborn of 2.2. Label elements Labelling according to Regulation Hazard pictograms (CLP) Signal word (CLP) Hazardous ingredients Hazard statements (CLP)	 the alth and environmental effects iid. Causes severe skin burns and eye damage. (EC) No. 1272/2008 [CLP] <i>i i i i i i i i i i</i>	unborn child. before use. / precautions have been read and understood. er handling. protection, protective clothing ED: Rinse mouth. Do NOT induce vomiting			
Full text of H statements : see section Adverse physicochemical, human May damage fertility or the unborn of 2.2. Label elements Labelling according to Regulation Hazard pictograms (CLP) Signal word (CLP) Hazardous ingredients Hazard statements (CLP) Precautionary statements (CLP)	 the alth and environmental effects iid. Causes severe skin burns and eye damage. (EC) No. 1272/2008 [CLP] <i>E i i i i i i i i i i</i>	unborn child. before use. / precautions have been read and understood. er handling. protection, protective clothing ED: Rinse mouth. Do NOT induce vomiting			

No additional information available

Safety Data Sheet

according to Regulation (EU) 2015/830

SECTION 3: C	omposition/informat	tion on ingredients
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3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
imidazole	(CAS-No.) 288-32-4 (EC-No.) 206-019-2 (EC Index-No.) 613-319-00-0	10 - 20	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Repr. 1B, H360D
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 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 effect	ts, both acute and delayed
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.
4.3. Indication of any immediate medical	attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the sub	ostance or mixture
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release meas	sures
6.1. Personal precautions, protective equ	uipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe spray, mist.
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. Notify authoritie	es if product enters sewers or public waters.
6.3. Methods and material for containme	nt and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
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.	
18/02/2019	EN (English) 48/52

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according to Regulation (EU) 2015/830

SECTION 7: Handling and storage					
7.1. Precautions for safe handling					
Precautions 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. Do not breathe mist, spray.				
Hygiene measures	: Separate working clothes from town clothes. Launder separately. 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, in	cluding any incompatibilities				
Storage conditions	: Store locked up. 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						
sodium azide (26628-22-8)						
EU	Local name	Sodium azide				
EU	IOELV TWA (mg/m ³)	0.1 mg/m³				
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 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.

9.1. Info	formation on basis abusised and abamical anomatics
	formation on basic physical and chemical properties
Physical state	te : Liquid

Available Carbohydrates/Dietary Fiber Assay Kit (Bottle 1) Safety Data Sheet

according to Regulation (EU) 2015/830	
Colour	: light yellow.
Odour	: None.
Odour threshold	: No data available
pH	: 7.6
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 256 °C
Flash point	: > 135 °C
Auto-ignition temperature	: 480 °C
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
Density	: 1.03 g/m³
Solubility	: Soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivi	ity
10.1. Reactivity	
The product is non-reactive under normal con	ditions of use, storage and transport.
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reaction	S
Contact with acids liberates very toxic gas.	
10.4. Conditions to avoid	
None under recommended storage and hand	ling conditions (see section 7).
10.5. Incompatible materials	
Acids.	
10.6. Hazardous decomposition produ	cts
	hazardous decomposition products should not be produced.
3	
SECTION 11: Toxicological inform	ation
11.1. Information on toxicological effect	cts

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. pH: 7.6
Serious eye damage/irritation	: Serious eye damage, category 1, implicit pH: 7.6
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: May damage fertility or the unborn child.

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STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
SECTION 12: Ecological informatio	n
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 assessm	ent de la constant de
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 / /	
ADR	ΙΑΤΑ
14.1. UN number	
Not applicable	Not applicable

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

14.6. Special precautions for user

- Overland transport

Not applicable

- Air transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

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

3(b) Substances or mixtures fulfilling the criteria for any of the following	Available Carbohydrates/Dietary Fiber Assay Kit (Bottle 1)
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 sexual	
function and fertility or on development, 3.8 effects other than narcotic	
effects, 3.9 and 3.10	

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

Full text of H- and EUH-statements:

Acute toxicity (oral), Category 2
Acute toxicity (oral), Category 4
Hazardous to the aquatic environment — Acute Hazard, Category 1
Hazardous to the aquatic environment — Chronic Hazard, Category 1
Reproductive toxicity, Category 1B
Skin corrosion/irritation, Category 1C
Fatal if swallowed.
Harmful if swallowed.
Causes severe skin burns and eye damage.
May damage fertility or the unborn child.
May damage the unborn child.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.
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.