

SECTION 1: Kit identification

Protein Digestibilty Assay Kit

Kit Safety Information Sheet

Date of issue: 11/01/2018

Version: 1.0

Kit identifier	
name code	 Protein Digestibility Assay Kit K-PDCAAS
Details of the supplier of the KIT safe	ety information sheet
ne siness Park 19 Bray - Ireland 2861220 - F +353 12861264 Jazyme.com - www.megazyme.com	
ON 2: General information	
duct is a Kit which consists of several ind	ependently packaged components od laboratory practices and appropriate personal protective equipment should be used
	name code Details of the supplier of the KIT safe ne siness Park 9 Bray - Ireland 2861220 - F +353 12861264 azyme.com - www.megazyme.com ON 2: General information

Name	General description	Quantity	Unit	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Protein Digestibilty Assay Kit (Bottle 1)	Reagent	1	pcs (pieces)	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335
Protein Digestibilty Assay Kit (Bottle 2)	Reagent	1	pcs (pieces)	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335
Protein Digestibilty Assay Kit (Bottle 3)	Reagent	1	pcs (pieces)	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335

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
Protein Digestibilty Assay Kit (Bottle 4)	Reagent	1	pcs (pieces)
Protein Digestibilty Assay Kit (Bottle 5)	Reagent	1	pcs (pieces)
Protein Digestibilty Assay Kit (Bottle 6)	Reagent	1	pcs (pieces)
Protein Digestibilty Assay Kit (Bottle 7)	Reagent	1	pcs (pieces)
Protein Digestibilty Assay Kit (Bottle 8)	Reagent	1	pcs (pieces)
Protein Digestibilty Assay Kit (Bottle 9)	Reagent	1	pcs (pieces)
Protein Digestibilty Assay Kit (Bottle 10)	Reagent	1	pcs (pieces)
Protein Digestibilty Assay Kit (Bottle 11)	Reagent	1	pcs (pieces)

SECTION 4: General advice

No data available

SECTION 5: Safe handling advice Environmental precautions : Avoid release to the environment Storage conditions : Store in a well-ventilated place. EN (English) 1/60

Protein Digestibilty Assay Kit

Kit Safety Information Sheet

	Keep cool.
Precautions for safe handling	: Ensure good ventilation of the work station Wear personal protective equipment
SECTION 6: First aid measures	
First-aid measures after eye contact	: Rinse eyes with water as a precaution
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water
Other medical advice or treatment	: Treat symptomatically
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 ire	: Toxic fumes may be released

No data available



Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 11/01/2018 Version: 1.0

Date of Issue: 11/01/2018 Version: 1.	J
SECTION 1: Identification of the substance/mixture and of t	he company/undertaking
1.1. Product identifier	
Product form : Mixture	
Product name : Protein Digestibility Assay k	it (Bottle 11)
Product code : K-PDCAAS (Bottle 11)	
1.2. Relevant identified uses of the substance or mixture and uses ac	vised against
	viseu against
1.2.1. Relevant identified uses	
No additional information available	
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safety data sheet	
Megazyme Bray Business Park A98 YV29 Bray - Ireland T +353 12861220 - F +353 12861264 <u>cs@megazyme.com</u> - <u>www.megazyme.com</u>	
1.4. Emergency telephone number	
Emergency number : +353 12861220 [9 am to 5	om GMT - Monday to Friday]
SECTION 2: Hazards identification	
2.1. Classification of the substance or mixture	
Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified	
Adverse physicochemical, human health and environmental effects To our knowledge, this product does not present any particular risk, provided it i practice.	s handled in accordance with good occupational hygiene and safety
2.2. Label elements	
Labelling according to Regulation (EC) No. 1272/2008 [CLP] No labelling applicable	

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

No labelling required

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effe	cts, both acute and delayed

No additional information available

Protein Digestibilty Assay Kit (Bottle 11) Safety Data Sheet

according to Regulation (EU) 2015/830

	12010/000				
4.3. Indication of any immediate medical attention and special treatment needed					
Treat symptomatically.					
SECTION 5: Firefi	ghting measures				
5.1. Extinguishin	•				
Suitable extinguishing n	nedia	: Water spray. Dry pow	der. Foam.		
5.2. Special haza	rds arising from the sul	ostance or mixture			
Hazardous decompositi fire	on products in case of	: Toxic fumes may be r	eleased.		
5.3. Advice for fir	refighters				
Protection during firefig	hting	: Do not attempt to take apparatus. Complete		protective equipment. Self	-contained breathing
SECTION 6: Accid	dental release meas	sures			
6.1. Personal pre	cautions, protective eq	uipment and emergency	r procedures		
6.1.1. For non-eme	rgency personnel				
Emergency procedures		: Ventilate spillage area	а.		
6.1.2. For emergen	cy responders				
Protective equipment			e action without suitable p posure controls/personal	protective equipment. For protection".	further information
6.2. Environment	tal precautions				
Avoid release to the env	vironment.				
6.3. Methods and	I material for containme	ent and cleaning up			
Methods for cleaning up)	: Mechanically recover	the product.		
Other information		: Dispose of materials or solid residues at an authorized site.			
6.4. Reference to	other sections				
For further information r	refer to section 13.				
SECTION 7: Hand	ling and storage				
7.1. Precautions	for safe handling				
Precautions for safe har	Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.				
Hygiene measures	easures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.				
7.2. Conditions for	or safe storage, includir				
Storage conditions : Store in a well-ventilated place. Keep cool.					
7.3. Specific end					
No additional information available					
SECTION 8: Expo	sure controls/pers	onal protection			
8.1. Control para					
No additional informatio	n available				
8.2. Exposure co	ntrols				
Appropriate engineeri	ng controls:				
Ensure good ventilation	of the work station.				
Hand protection:					
Protective gloves					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)	. ,	2 (< 1.5)	EN 374
i coodbie gioves				2 (31.0)	

Eye protection:

Safety glasses

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

Safety Data Sheet

according to Regulation (EU) 2015/830

Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemica	I properties
9.1. Information on basic physical and	
Physical state	: Solid
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Solubility	: No data available
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	tv

10 1	Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

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

Safety Data Sheet

according to Regulation (EU) 2015/830

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological info	rmation
11.1. Information on toxicological e	ffects
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	J
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessme	ent
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / A	DN
ADR	ΙΑΤΑ
14.1. UN number	
Not applicable	Not applicable
14.2. UN proper shipping name Not applicable	Not applicable
14.3. Transport hazard class(es)	
Not applicable	Not applicable

Not applicable

Not applicable

Not applicable

Not applicable

14.5.

14.4. Packing group

Environmental hazards

Safety Data Sheet

according to Regulation (EU) 2015/830

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

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

SDS EU (REACH Annex II)

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



Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 11/01/2018 Version: 1.0

		version. 1.0
SECT	ION 1: Identification of th	e substance/mixture and of the company/undertaking
1.1.	Product identifier	
Produc	t form	: Mixture
Produc	t name	: Protein Digestibilty Assay Kit (Bottle 10)
Produc	t code	: K-PDCAAS (Bottle 10)
1.2.	Relevant identified uses of the	ne substance or mixture and uses advised against
1.2.1.	Relevant identified uses	
No add	itional information available	
1.2.2.	Uses advised against	
	itional information available	
1.3.	Details of the supplier of the	safety data sheet
A98 YV T +353 <u>cs@me</u>	usiness Park /29 Bray - Ireland 12861220 - F +353 12861264 agazyme.com - <u>www.megazyme.co</u>	
1.4.	Emergency telephone numb	
Emerge	ency number	: +353 12861220 [9 am to 5 pm GMT - Monday to Friday]
SECT	ION 2: Hazards identifica	tion
2.1.	Classification of the substan	ce or mixture
Classif	ication according to Regulation	(EC) No. 1272/2008 [CLP]
Not cla	ssified	
Advers	e physicochemical, human hea	Ith and environmental effects
To our practice		present any particular risk, provided it is handled in accordance with good occupational hygiene and safety
2.2.	Label elements	
Labelli	ng according to Regulation (EC) No. 1272/2008 [CL P]

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

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

No labelling required

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.	
First-aid measures after skin contact	: Wash skin with plenty of water.	
First-aid measures after eye contact	: Rinse eyes with water as a precaution.	
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.	
4.2. Most important symptoms and effects, both acute and delayed		

No additional information available

Protein Digestibilty Assay Kit (Bottle 10) Safety Data Sheet

according to Regulation (EU) 2015/830

	•				
4.3. Indication of any immediate medical attention and special treatment needed					
Treat symptomatically.					
SECTION 5: Firefighting measures					
5.1. Extinguishing media					
Suitable extinguishing media : Water spray. Dry powder. Foam.					
5.2. Special haza	rds arising from the sul	ostance or mixture			
Hazardous decompositi fire	on products in case of	: Toxic fumes may be r	eleased.		
5.3. Advice for fir	refighters				
Protection during firefig	hting	: Do not attempt to take apparatus. Complete		protective equipment. Self	-contained breathing
SECTION 6: Accid	dental release meas	sures			
6.1. Personal pre	cautions, protective eq	uipment and emergency	procedures		
6.1.1. For non-eme	rgency personnel				
Emergency procedures		: Ventilate spillage area	a.		
6.1.2. For emergen	cy responders				
Protective equipment			e action without suitable p posure controls/personal	protective equipment. For protection".	further information
6.2. Environment	tal precautions				
Avoid release to the env	vironment.				
6.3. Methods and	I material for containme	ent and cleaning up			
Methods for cleaning up)	: Mechanically recover	the product.		
Other information		: Dispose of materials	or solid residues at an au	thorized site.	
6.4. Reference to For further information r	other sections refer to section 13.				
SECTION 7: Hand	ling and storage				
	for safe handling				
Precautions for safe ha	ndling	: Ensure good ventilation	on of the work station. We	ear personal protective ec	quipment.
Hygiene measures					
7.2. Conditions for	or safe storage, includir	ng any incompatibilities			
Storage conditions		: Store in a well-ventila	ted place. Keep cool.		
7.3. Specific end	use(s)				
No additional information	n available				
SECTION 8: Expo	sure controls/pers	onal protection			
8.1. Control para	meters				
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
Reusable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)	-	2 (< 1.5)	EN 374
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Eye protection:

Safety glasses

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

Safety Data Sheet

according to Regulation (EU) 2015/830

Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chomica	al proportios	
SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Colour	: No data available	
Odour	: No data available	
Odour threshold	: No data available	
pH	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: Not applicable	
Boiling point	: No data available	
Flash point	: Not applicable	
Auto-ignition temperature	: Not applicable	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Non flammable.	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: Not applicable	
Solubility	: No data available	
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 reactivi	ity	
10.1. 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).

Safety Data Sheet

according to Regulation (EU) 2015/830

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological info	rmation
11.1. Information on toxicological e	ffects
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	
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 assessmen	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 / AD	DN
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

Not applicable

Not applicable

Not applicable 14.5. Envi

Packing group

Environmental hazards

14.4.

Safety Data Sheet

according to Regulation (EU) 2015/830

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

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

SDS EU (REACH Annex II)

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



Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 11/01/2018 Version: 1.0

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SECTIO	N 1: Identification of the su	bstance/mixture and of the company/undertaking	
1.1.	Product identifier		
Product fo	rm	: Mixture	
Product na	ame	: Protein Digestibilty Assay Kit (Bottle 9)	
Product co	ode	: K-PDCAAS (Bottle 9)	
1.2.	Relevant identified uses of the sub	ostance or mixture and uses advised against	
1.2.1.	Relevant identified uses		
No additio	nal information available		
1.2.2.	Uses advised against		
	nal information available		
1.3.	Details of the supplier of the safety	y data sheet	
T +353 12			
1.4.	Emergency telephone number		
Emergenc	y number	: +353 12861220 [9 am to 5 pm GMT - Monday to Friday]	
SECTIO	N 2: Hazards identification		
2.1.	Classification of the substance or	mixture	
Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified			
Adverse physicochemical, human health and environmental effects To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.			
2.2.	Label elements		

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

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

No labelling required

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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

SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.			
First-aid measures after skin contact	: Wash skin with plenty of water.			
First-aid measures after eye contact	: Rinse eyes with water as a precaution.			
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.			
4.2. Most important symptoms and effects, both acute and delayed				

No additional information available

Safety Data Sheet

according to Regulation (EU) 2015/830

	,				
4.3. Indication of any immediate medical attention and special treatment needed					
Treat symptomatically.					
	SECTION 5: Firefighting measures				
5.1. Extinguishin	•	. Watan annau Dinunau	den Feen		
Suitable extinguishing n		: Water spray. Dry pow	der. Foam.		
-	rds arising from the sul				
Hazardous decompositi fire	on products in case of	: Toxic fumes may be r	eleased.		
5.3. Advice for fi					
Protection during firefig	hting	: Do not attempt to take apparatus. Complete		protective equipment. Sel	f-contained breathing
	dental release meas				
6.1. Personal pre	cautions, protective eq	uipment and emergency	/ procedures		
6.1.1. For non-eme	ergency personnel				
Emergency procedures		: Ventilate spillage area	а.		
6.1.2. For emergen	icy responders				
Protective equipment			e action without suitable posure controls/persona	protective equipment. For I protection".	further information
6.2. Environment	tal precautions				
Avoid release to the env	vironment.				
6.3. Methods and	I material for containme	nt and cleaning up			
Methods for cleaning up	0	: Mechanically recover	the product.		
Other information		: Dispose of materials	or solid residues at an au	uthorized site.	
6.4. Reference to	other sections				
For further information r	refer to section 13.				
SECTION 7: Hand	lling and storage				
7.1. Precautions	for safe handling				
Precautions for safe ha	ndling	•		ear personal protective ec	
Hygiene measures		: Do not eat, drink or si product.	moke when using this pro	oduct. Always wash hands	s after handling the
7.2. Conditions f	or safe storage, includi				
Storage conditions		: Store in a well-ventila	ted place. Keep cool.		
7.3. Specific end	()				
No additional information	on available				
SECTION 8: Expo	sure controls/pers	onal protection			
8.1. Control para	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
Reusable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)		2 (< 1.5)	EN 374
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Eye protection:

Safety glasses

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

Safety Data Sheet

according to Regulation (EU) 2015/830

Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemica	I properties	
9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Colour	: No data available	
Odour	: No data available	
Odour threshold	: No data available	
рН	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: Not applicable	
Boiling point	No data available	
Flash point	: Not applicable	
Auto-ignition temperature	: Not applicable	
Decomposition temperature	No data available	
Flammability (solid, gas)	: Non flammable.	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: Not applicable	
Solubility	: No data available	
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		
	5/	
10.1. Reactivity		

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

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

Safety Data Sheet

according to Regulation (EU) 2015/830

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information		
11.1. Information on toxicological e	ffects	
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		
12.1. Toxicity		
Ecology - general	: The product is not con effects in the environm	nsidered harmful to aquatic organisms nor to cause long-term adverse nent.
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 assessmen	t	
No additional information available		
12.6. Other adverse effects		
No additional information available		
SECTION 13: Disposal considerations	S	
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 / AD	Ν	
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

Not applicable

Not applicable

Packing group

Environmental hazards

14.4.

Not applicable 14.5. Envi

Not applicable

Safety Data Sheet

according to Regulation (EU) 2015/830

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

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

SDS EU (REACH Annex II)

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



Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 11/01/2018 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking			
1.1. Product identifier			
Product form	: Mixture		
Product name	: Protein Digestibilty Assay Kit (Bottle 8)		
Product code	: K-PDCAAS (Bottle 8)		
1.2. Relevant identified uses of the su	bstance or mixture and uses advised against		
1.2.1. Relevant identified uses			
No additional information available			
1.2.2. Uses advised against No additional information available			
1.3. Details of the supplier of the safet	v data sheet		
Megazyme Bray Business Park A98 YV29 Bray - Ireland T +353 12861220 - F +353 12861264 cs@megazyme.com - www.megazyme.com			
1.4. Emergency telephone number			
Emergency number	: +353 12861220 [9 am to 5 pm GMT - Monday to Friday]		
SECTION 2: Hazards identification			
2.1. Classification of the substance or	mixture		
Classification according to Regulation (EC) No. 1272/2008 [CLP]			
Not classified			

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

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

No labelling required

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effe	cts, both acute and delayed

No additional information available

Safety Data Sheet

according to Regulation (EU) 2015/830

4.3. Indication of any immediate medical attention and special treatment needed					
Treat symptomatically.					
SECTION 5: Firefi	ghting measures				
5.1. Extinguishin	-				
Suitable extinguishing n	nedia	: Water spray. Dry pow	der. Foam.		
	rds arising from the sub				
Hazardous decompositi fire	on products in case of	: Toxic fumes may be r	eleased.		
5.3. Advice for fir					
Protection during firefigh	nting	: Do not attempt to take apparatus. Complete	e action without suitable p protective clothing.	protective equipment. Self	-contained breathing
SECTION 6: Accid	lental release meas	sures			
6.1. Personal pre	cautions, protective equ	uipment and emergency	/ procedures		
6.1.1. For non-eme	rgency personnel				
Emergency procedures		: Ventilate spillage area	а.		
6.1.2. For emergen	cy responders				
Protective equipment			e action without suitable p posure controls/personal		further information
6.2. Environment	al precautions				
Avoid release to the env	vironment.				
6.3. Methods and	I material for containme	nt and cleaning up			
Methods for cleaning up)	: Mechanically recover	•		
Other information		: Dispose of materials	or solid residues at an aut	thorized site.	
	other sections				
For further information r					
SECTION 7: Hand					
	for safe handling				
Precautions 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					
Tiygiene measures		product.	noke when using this pro-	uuci. Always wash hanus	
7.2. Conditions for	or safe storage, includir	ng any incompatibilities			
Storage conditions		: Store in a well-ventila	ted place. Keep cool.		
7.3. Specific end	use(s)				
No additional informatio	n available				
SECTION 8: Expo	sure controls/perso	onal protection			
8.1. Control para					
No additional informatio					
8.2. Exposure co	ntrols				
Appropriate engineering controls:					
Ensure good ventilation of the work station.					
Hand protection:					
Protective gloves					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)	· · · ·	2 (< 1.5)	EN 374
				- (* 1.0)	

Eye protection:

Safety glasses

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

Safety Data Sheet

according to Regulation (EU) 2015/830

Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemica	l proportios
9.1. Information on basic physical and	
Physical state	: Solid
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
РН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Solubility	: No data available
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 reactivi	ity
10.1. Reactivity	

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

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

Safety Data Sheet

according to Regulation (EU) 2015/830

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological info	rmation
11.1. Information on toxicological e	ffects
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	
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	2N
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

Not applicable

Not applicable

Packing group

Environmental hazards

14.4.

Not applicable 14.5. Envi

Not applicable

Safety Data Sheet

according to Regulation (EU) 2015/830

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

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

SDS EU (REACH Annex II)

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



Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 11/01/2018 Version: 1.0

Date of Issue: 11/01/2018 Version: 1.0
SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1. Product identifier
Product form : Mixture
Product name : Protein Digestibility Assay Kit (Bottle 7)
Product code : K-PDCAAS (Bottle 7)
1.2. Relevant identified uses of the substance or mixture and uses advised against
1.2.1. Relevant identified uses
No additional information available
1.2.2. Uses advised against
No additional information available
1.3. Details of the supplier of the safety data sheet
Bray Business Park A98 YV29 Bray - Ireland T +353 12861220 - F +353 12861264 <u>cs@megazyme.com</u> - <u>www.megazyme.com</u>
1.4. Emergency telephone number
Emergency number : +353 12861220 [9 am to 5 pm GMT - Monday to Friday]
SECTION 2: Hazards identification
2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified
Adverse physicochemical, human health and environmental effects
To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.
2.2. Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP] No labelling applicable

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

No labelling required

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effe	cts, both acute and delayed

No additional information available

Protein Digestibilty Assay Kit (Bottle 7) Safety Data Sheet

according to Regulation (EU) 2015/830

	,				
4.3. Indication of	any immediate medica	attention and special tr	eatment needed		
Treat symptomatically.					
SECTION 5: Firefi	ghting measures				
5.1. Extinguishin	g media				
Suitable extinguishing media : Water spray. Dry powder. Foam.					
5.2. Special haza	rds arising from the su	ostance or mixture			
Hazardous decompositi fire	on products in case of	: Toxic fumes may be r	eleased.		
5.3. Advice for fin	refighters				
Protection during firefig	hting	: Do not attempt to take apparatus. Complete		protective equipment. Self	-contained breathing
SECTION 6: Accid	dental release meas	sures			
6.1. Personal pre	cautions, protective eq	uipment and emergency	v procedures		
6.1.1. For non-eme	ergency personnel				
Emergency procedures		: Ventilate spillage area	a.		
6.1.2. For emergen	icy responders				
Protective equipment		•	e action without suitable p posure controls/personal	protective equipment. For protection".	further information
6.2. Environment	tal precautions				
Avoid release to the env	vironment.				
6.3. Methods and	I material for containme	ent and cleaning up			
Methods for cleaning up	D	: Mechanically recover	•		
Other information		: Dispose of materials of	or solid residues at an au	thorized site.	
	other sections				
For further information					
SECTION 7: Hand	lling and storage				
	for safe handling				
Precautions for safe ha	ndling	•		ear personal protective ec	• •
Hygiene measures		product.	noke when using this pro	duct. Always wash hands	alter handling the
7.2. Conditions f	or safe storage. includi	ng any incompatibilities			
Storage conditions		: Store in a well-ventila	ted place. Keep cool.		
7.3. Specific end	use(s)		·		
No additional information					
SECTION 8: Expo	sure controls/pers	onal protection			
8.1. Control para					
No additional information					
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
Reusable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)		2 (< 1.5)	EN 374

Eye protection:

Safety glasses

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

Safety Data Sheet

according to Regulation (EU) 2015/830

Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical	nronerties
9.1. Information on basic physical and	
Physical state	: Solid
Colour	: No data available
Odour	No data available
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivit	v
10.1. Reactivity	

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

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

Safety Data Sheet

according to Regulation (EU) 2015/830

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological info	rmation
11.1. Information on toxicological e	ffects
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		
12.1. Toxicity		
Ecology - general	: The product is not co effects in the environ	nsidered harmful to aquatic organisms nor to cause long-term adverse nent.
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 assessmen	t	
No additional information available		
12.6. Other adverse effects		
No additional information available		
SECTION 13: Disposal considerations	S	
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 / AD	N	
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

Not applicable

Not applicable

Packing group

Environmental hazards

14.4.

Not applicable 14.5. Envi

Not applicable

Safety Data Sheet

according to Regulation (EU) 2015/830

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

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

SDS EU (REACH Annex II)

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



Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 11/01/2018 Version: 1.0

SECTION 1: Identification of the su	bstance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Protein Digestibilty Assay Kit (Bottle 6)
Product code	: K-PDCAAS (Bottle 6)
1.2. Relevant identified uses of the sub	ostance or mixture and uses advised against
1.2.1. Relevant identified uses	
No additional information available	
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safety	y data sheet
Megazyme Bray Business Park A98 YV29 Bray - Ireland T +353 12861220 - F +353 12861264 <u>cs@megazyme.com</u> - <u>www.megazyme.com</u>	
1.4. Emergency telephone number	
Emergency number	: +353 12861220 [9 am to 5 pm GMT - Monday to Friday]
SECTION 2: Hazards identification	
2.1. Classification of the substance or	mixture
Classification according to Regulation (EC)	No. 1272/2008 [CLP]
Not classified	

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

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

No labelling required

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.	
First-aid measures after skin contact	: Wash skin with plenty of water.	
First-aid measures after eye contact	: Rinse eyes with water as a precaution.	
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.	
4.2. Most important symptoms and effects, both acute and delayed		

No additional information available

Safety Data Sheet

according to Regulation (EU) 2015/830

4.3. Indication of any immediate medical attention and special treatment needed					
Treat symptomatically.					
SECTION 5: Firefi	ghting measures				
5.1. Extinguishin	g media				
Suitable extinguishing n	nedia	: Water spray. Dry pow	der. Foam.		
5.2. Special haza	rds arising from the sub	ostance or mixture			
Hazardous decompositi fire	on products in case of	: Toxic fumes may be r	eleased.		
5.3. Advice for fir					
Protection during firefig	nting	: Do not attempt to take apparatus. Complete	e action without suitable p protective clothing.	protective equipment. Self	-contained breathing
SECTION 6: Accid	lental release meas	sures			
6.1. Personal pre	cautions, protective equ	uipment and emergency	/ procedures		
6.1.1. For non-eme	rgency personnel				
Emergency procedures		: Ventilate spillage area	а.		
6.1.2. For emergen	cy responders				
Protective equipment			e action without suitable p posure controls/personal		further information
6.2. Environment	al precautions				
Avoid release to the env	vironment.				
6.3. Methods and	I material for containme	nt and cleaning up			
Methods for cleaning up)	: Mechanically recover	the product.		
Other information		: Dispose of materials	or solid residues at an aut	thorized site.	
	other sections				
For further information r					
SECTION 7: Hand	ling and storage				
	for safe handling				
Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the					
product.					
7.2. Conditions for safe storage, including any incompatibilities					
Storage conditions : Store in a well-ventilated place. Keep cool.					
7.3. Specific end use(s)					
No additional information available					
SECTION 8: Expo	sure controls/perso	onal protection			
8.1. Control para					
No additional informatio	n available				
8.2. Exposure co	ntrols				
Appropriate engineeri	ng controls:				
Ensure good ventilation	of the work station.				
Hand protection:					
Protective gloves					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)	. ,	2 (< 1.5)	EN 374
				- (

Eye protection:

Safety glasses

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

Safety Data Sheet

according to Regulation (EU) 2015/830

Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemica	al proportios
9.1. Information on basic physical and	
Physical state	: Solid
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Solubility	: No data available
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 reactivi	ity
10.1. 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).

Safety Data Sheet

according to Regulation (EU) 2015/830

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological info	rmation
11.1. Information on toxicological e	ffects
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	
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 assessmen	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 / AD	DN
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	Not applicable

Not applicable

Not applicable

Not applicable 14.5. Envi

Packing group

Environmental hazards

14.4.

Safety Data Sheet

according to Regulation (EU) 2015/830

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

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

SDS EU (REACH Annex II)

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



Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 11/01/2018 Version: 1.0

SECTION 1: Identification of the out	betanee/mixture and of the company/undertaking
	bstance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Protein Digestibilty Assay Kit (Bottle 5)
Product code	: K-PDCAAS (Bottle 5)
1.2. Relevant identified uses of the sub	stance or mixture and uses advised against
1.2.1. Relevant identified uses	
No additional information available	
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]
OFOTION & Use and identification	
SECTION 2: Hazards identification	
2.1. Classification of the substance or	mixture
Classification according to Regulation (EC)	No. 1272/2008 [CLP]
Not classified	

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

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

No labelling required

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effe	cts, both acute and delayed

No additional information available

Safety Data Sheet

according to Regulation (EU) 2015/830

	,				
	any immediate medica	attention and special to	reatment needed		
Treat symptomatically.					
SECTION 5: Firefi					
5.1. Extinguishin	•	. Watan annau Dinunau	den Feen		
Suitable extinguishing n		: Water spray. Dry pow	der. Foam.		
-	rds arising from the sul				
Hazardous decompositi fire	on products in case of	: Toxic fumes may be r	eleased.		
5.3. Advice for fi					
Protection during firefig	hting	: Do not attempt to take apparatus. Complete		protective equipment. Sel	f-contained breathing
	dental release meas				
6.1. Personal pre	cautions, protective eq	uipment and emergency	/ procedures		
6.1.1. For non-eme	ergency personnel				
Emergency procedures		: Ventilate spillage area	а.		
6.1.2. For emergen	icy responders				
Protective equipment			e action without suitable posure controls/persona	protective equipment. For I protection".	further information
6.2. Environment	tal precautions				
Avoid release to the env	vironment.				
6.3. Methods and	I material for containme	nt and cleaning up			
Methods for cleaning up	0	: Mechanically recover	the product.		
Other information		: Dispose of materials	or solid residues at an au	uthorized site.	
6.4. Reference to	other sections				
For further information r	refer to section 13.				
SECTION 7: Hand	lling and storage				
7.1. Precautions	for safe handling				
Precautions for safe ha	ndling	•		ear personal protective ec	
Hygiene measures		: Do not eat, drink or si product.	moke when using this pro	oduct. Always wash hands	s after handling the
7.2. Conditions f	or safe storage, includi				
Storage conditions		: Store in a well-ventila	ted place. Keep cool.		
7.3. Specific end	()				
No additional information	on available				
SECTION 8: Expo	sure controls/pers	onal protection			
8.1. Control para	meters				
No additional information	on available				
8.2. Exposure co	ntrols				
Appropriate engineeri	ng controls:				
Ensure good ventilation	of the work station.				
Hand protection:					
Protective gloves					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)		2 (< 1.5)	EN 374
~		. ,		· · ·	1

Eye protection:

Safety glasses

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

Safety Data Sheet

according to Regulation (EU) 2015/830

Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemica	I properties
9.1. Information on basic physical an	d chemical properties
Physical state	: Solid
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Solubility	: No data available
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 reactive	tv
10.1. Reactivity	

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

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

Safety Data Sheet

according to Regulation (EU) 2015/830

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological 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	: 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 assessment			
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 / 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	Not applicable		

Not applicable

Not applicable

Not applicable 14.5. Envi

Packing group

Environmental hazards

14.4.

Safety Data Sheet

according to Regulation (EU) 2015/830

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

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

SDS EU (REACH Annex II)



Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 11/01/2018 Version: 1.0

SECTION 1. Identification of the out	betance/mixture and of the company/undertaking		
	bstance/mixture and of the company/undertaking		
1.1. Product identifier			
Product form	: Mixture		
Product name	: Protein Digestibilty Assay Kit (Bottle 4)		
Product code	: K-PDCAAS (Bottle 4)		
1.2. Relevant identified uses of the sub	stance or mixture and uses advised against		
1.2.1. Relevant identified uses			
No additional information available			
1.2.2. Uses advised against			
No additional information available			
1.3. Details of the supplier of the safety	v data sheet		
Megazyme			
Bray Business Park			
A98 YV29 Bray - Ireland T +353 12861220 - F +353 12861264			
cs@megazyme.com - www.megazyme.com			
1.4. Emergency telephone number			
Emergency number	: +353 12861220 [9 am to 5 pm GMT - Monday to Friday]		
SECTION 2: Hazards identification			
2.1. Classification of the substance or I	mixture		
Classification according to Regulation (EC) No. 1272/2008 [CLP]			
Not classified			

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

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

No labelling required

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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

SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.			
First-aid measures after skin contact	: Wash skin with plenty of water.			
First-aid measures after eye contact	: Rinse eyes with water as a precaution.			
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.			
4.2. Most important symptoms and effects, both acute and delayed				

No additional information available

Protein Digestibilty Assay Kit (Bottle 4) Safety Data Sheet

according to Regulation (EU) 2015/830

4.3. Indication of any immediate medical attention and special treatment needed					
Treat symptomatically.					
SECTION 5: Firefighting measures					
5.1. Extinguishing media					
Suitable extinguishing n	nedia	: Water spray. Dry pow	der. Foam.		
5.2. Special haza	rds arising from the sul	ostance or mixture			
Hazardous decompositi fire	on products in case of	: Toxic fumes may be r	eleased.		
5.3. Advice for fir	refighters				
Protection during firefig	hting	: Do not attempt to take apparatus. Complete		protective equipment. Self	-contained breathing
SECTION 6: Accid	dental release meas	sures			
6.1. Personal pre	cautions, protective eq	uipment and emergency	r procedures		
6.1.1. For non-eme	rgency personnel				
Emergency procedures		: Ventilate spillage area	a.		
6.1.2. For emergen	cy responders				
Protective equipment			e action without suitable p posure controls/personal	protective equipment. For protection".	further information
6.2. Environment	tal precautions				
Avoid release to the env	vironment.				
6.3. Methods and	I material for containme	nt and cleaning up			
Methods for cleaning up)	: Mechanically recover the product.			
Other information		: Dispose of materials	or solid residues at an au	thorized site.	
6.4. Reference to For further information r	other sections refer to section 13.				
SECTION 7: Hand	ling and storage				
	for safe handling				
Precautions for safe har	ndling	: Ensure good ventilation	on of the work station. We	ear personal protective ec	quipment.
Hygiene measures					after handling the
7.2. Conditions for	or safe storage, includir	ng any incompatibilities			
Storage conditions		: Store in a well-ventila	ted place. Keep cool.		
7.3. Specific end	use(s)				
No additional information	n available				
SECTION 8: 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:	Hand protection:				
Protective gloves					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)	. ,	2 (< 1.5)	EN 374
1.000000 90000		0 (* 00 minutos)		2 (1.0)	

Eye protection:

Safety glasses

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

Safety Data Sheet

according to Regulation (EU) 2015/830

Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical 9.1. Information on basic physical and		
Physical state		
Colour	: No data available	
Odour	: No data available	
Odour threshold	: No data available	
рН	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: Not applicable	
Boiling point	: No data available	
Flash point	: Not applicable	
Auto-ignition temperature	: Not applicable	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Non flammable.	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: Not applicable	
Solubility	: No data available	
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	v	
10.1. Reactivity		

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

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

Safety Data Sheet

according to Regulation (EU) 2015/830

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information		
11.1. Information on toxicological e	ffects	
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			
12.1. Toxicity			
Ecology - general	: The product is not con effects in the environm	nsidered harmful to aquatic organisms nor to cause long-term adverse nent.	
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 assessmen	t		
No additional information available			
12.6. Other adverse effects			
No additional information available			
SECTION 13: Disposal considerations	S		
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 / AD	Ν		
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	

Not applicable

Not applicable

Packing group

Environmental hazards

14.4.

Not applicable 14.5. Envi

Not applicable

Safety Data Sheet

according to Regulation (EU) 2015/830

ADR	IATA				
	No supplementary information available				
14.6.	Special precautions for user				
- Overl	and transport				
Not app	blicable				
- Air tra	- Air transport				
Not app	blicable				
14.7.	Transport in bulk according to Annex II of Marpol and the IBC Code				
Not applicable					
SECT	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					
Contair	Contains no REACH Annex XIV substances				

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

SDS EU (REACH Annex II)



Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 11/01/2018 Version: 1.0

SECTION 1: Identification of the sul	bstance/mixture and of the company/undertaking		
1.1. Product identifier			
Product form	: Mixture		
Product name	: Protein Digestibilty Assay Kit (Bottle 3)		
Product code	: K-PDCAAS (Bottle 3)		
1.2. Relevant identified uses of the sub	stance or mixture and uses advised against		
1.2.1. Relevant identified uses			
No additional information available			
1.2.2. Uses advised against			
No additional information available			
1.3. Details of the supplier of the safety	r data sheet		
Megazyme Bray Business Park A98 YV29 Bray - Ireland T +353 12861220 - F +353 12861264 <u>cs@megazyme.com</u> - <u>www.megazyme.com</u>			
1.4. Emergency telephone number			
Emergency number	: +353 12861220 [9 am to 5 pm GMT - Monday to Friday]		
SECTION 2: Hazards identification			
2.1. Classification of the substance or I	mixture		

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2H315Serious eye damage/eye irritation, Category 1H3192Respiratory sensitisation, Category 1H334Specific target organ toxicity — Single
exposure, Category 3, Respiratory tract
irritationH335Full text of H statements : see section 16H319

Adverse physicochemical, human health and environmental effects

May cause respiratory irritation. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP)

	GHS07 GHS08
Signal word (CLP)	: Danger
Hazardous ingredients	: chymotrypsin
Hazard statements (CLP)	 H315 - Causes skin irritation. H319 - Causes serious eye irritation H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 - May cause respiratory irritation.
Precautionary statements (CLP)	 P261 - Avoid breathing dust. P264 - Wash hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves, protective clothing, eye protection P284 - [In case of inadequate ventilation] wear respiratory protection. P302+P352 - IF ON SKIN: Wash with plenty of water.

Safety Data Sheet

according to Regulation (EU) 2015/830

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





Hazardous ingredients

: chymotrypsin

2.3. Other hazards

No additional information available

SECT	ION 3: Composition/information on ing	gredients			
3.1.	Substances				
Not app	blicable				
3.2.	Mixtures				

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
chymotrypsin	(CAS-No.) 9004-07-3 (EC-No.) 232-671-2 (EC Index-No.) 647-011-00-2	100	Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 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. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/effects after inhalation	: May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECT	ION 5: Firefighting measures			
5.1.	Extinguishing media			
Suitable	e extinguishing media	: Water spray. Dry powder. Foam.		
5.2.	Special hazards arising from the su	ubstance or mixture		
Hazardo fire	ous decomposition products in case of	: Toxic fumes may be released.		
5.3.	Advice for firefighters			
Protecti	on during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		
SECT	ION 6: Accidental release mea	isures		
6.1.	Personal precautions, protective e	quipment and emergency procedures		
6.1.1.	1.1. For non-emergency personnel			
Emerge	ncy procedures	: Ventilate spillage area. Avoid breathing dust. Avoid contact with skin and eyes.		

Safety Data Sheet

according to Regulation (EU) 2015/830

6.1.2.	For emergency responders	
Protecti	ive equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2.	Environmental precautions	
Avoid re	elease to the environment.	
6.3.	Methods and material for contain	ment and cleaning up
Method	s for cleaning up	: Mechanically recover the product.
Other ir	nformation	: Dispose of materials or solid residues at an authorized site.
6.4.	Reference to other sections	
For furt	her information refer to section 13.	
SECT	ION 7: Handling and storage	
7.1.	Precautions for safe handling	
Precaut	tions for safe handling	 Use only outdoors or in a well-ventilated area. Avoid breathing dust. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene	e measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product Always wash hands after handling the product.
7.2.	Conditions for safe storage, inclu	uding any incompatibilities
Storage	conditions	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
7.3.	Specific end use(s)	
No add	itional information available	
SECT	ION 8: Exposure controls/pe	rsonal protection
8.1.	Control parameters	
No odd	itional information available	

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Protective gloves

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)		2 (< 1.5)	EN 374

Eye protection:

Safety glasses

Туре	Use	Characteristics	Standard
Safety glasses	Dust	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	Dust protection	EN 143, EN 149



Safety Data Sheet

according to Regulation (EU) 2015/830

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and c	he	mical properties
Physical state	:	Solid
Colour	:	No data available
Odour	:	No data available
Odour threshold	:	No data available
рН	:	No data available
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	No data available
Freezing point	:	Not applicable
Boiling point	:	No data available
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	Non flammable.
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	Not applicable
Solubility	:	No data available
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
I0.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).
10.5. Incompatible materials
No additional information available
10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information		
11.1. Information on toxicological effec	ts	
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Germ cell mutagenicity	: Not classified	

Safety Data Sheet

according to Regulation (EU) 2015/830

Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
STOT-single exposure	: May cause respiratory irritation.	
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 assessment	
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods :	Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	

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

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

14.6. Special precautions for user

- Overland transport

Not applicable

- Air transport

Not applicable

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Safety Data Sheet

according to Regulation (EU) 2015/830

Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation.
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

SDS EU (REACH Annex II)



Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 11/01/2018 Version: 1.0

SECTION 1: Identification of the sub	ostance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Protein Digestibilty Assay Kit (Bottle 2)
Product code	: K-PDCAAS (Bottle 2)
1.2. Relevant identified uses of the sub	stance or mixture and uses advised against
1.2.1. Relevant identified uses	
No additional information available	
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safety	data sheet
Megazyme Bray Business Park A98 YV29 Bray - Ireland T +353 12861220 - F +353 12861264 <u>cs@megazyme.com</u> - <u>www.megazyme.com</u>	
1.4. Emergency telephone number	
Emergency number	: +353 12861220 [9 am to 5 pm GMT - Monday to Friday]
SECTION 2: Hazards identification	
2.1. Classification of the substance or r	nixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

3 3 1	
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Respiratory sensitisation, Category 1	H334
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	H335
Full text of H statements : see section 16	

Adverse physicochemical, human health and environmental effects

May cause respiratory irritation. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP)

	GHS07 GHS08
Signal word (CLP)	: Danger
Hazardous ingredients	: trypsin
Hazard statements (CLP)	:H315 - Causes skin irritation. H319 - Causes serious eye irritation H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 - May cause respiratory irritation.
Precautionary statements (CLP)	 P261 - Avoid breathing dust. P264 - Wash hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves, protective clothing, eye protection P284 - [In case of inadequate ventilation] wear respiratory protection. P302+P352 - IF ON SKIN: Wash with plenty of water.

Safety Data Sheet

according to Regulation (EU) 2015/830

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





Hazardous ingredients

: trypsin

2.3. **Other hazards**

No additional information available

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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
trypsin	(CAS-No.) 9002-07-7 (EC-No.) 232-650-8 (EC Index-No.) 647-010-00-7	100	Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 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. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/effects after inhalation	: May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficultie if inhaled.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECT	ION 5: Firefighting measures	
5.1.	Extinguishing media	
Suitable	e extinguishing media	: Water spray. Dry powder. Foam.
5.2.	Special hazards arising from the su	ubstance or mixture
Hazardo fire	ous decomposition products in case of	: Toxic fumes may be released.
5.3.	Advice for firefighters	
Protecti	on during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECT	ION 6: Accidental release mea	asures
6.1.	Personal precautions, protective e	quipment and emergency procedures
6.1.1.	For non-emergency personnel	
Emerge	ncy procedures	: Ventilate spillage area. Avoid breathing dust. Avoid contact with skin and eyes.

12/03/2018

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	iment and cleaning up
Method	s for cleaning up	: Mechanically recover the product.
Other ir	formation	: Dispose of materials or solid residues at an authorized site.
6.4.	Reference to other sections	
For furt	ner information refer to section 13.	
SECT	ION 7: Handling and storage	
7.1.	Precautions for safe handling	
Precaut	ions for safe handling	: Use only outdoors or in a well-ventilated area. Avoid breathing dust. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene	e measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product Always wash hands after handling the product.
7.2.	Conditions for safe storage, inclu	uding any incompatibilities
Storage	conditions	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
7.3.	Specific end use(s)	
No addi	tional information available	
SECT	ION 8: Exposure controls/pe	ersonal protection
8.1.	Control parameters	
	tional 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
Reusable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)		2 (< 1.5)	EN 374

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	Dust protection	EN 149, EN 143



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 ch	emical properties
Physical state	: Solid
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable

9.2. Other information

No additional information available

SECTIC	SECTION 10: Stability and reactivity		
10.1.	Reactivity		
The produ	The product is non-reactive under normal conditions of use, storage and transport.		
10.2.	Chemical stability		
Stable un	der normal conditions.		
10.3.	Possibility of hazardous reactions		
No dange	No dangerous reactions known under normal conditions of use.		
10.4.	Conditions to avoid		
None und	None under recommended storage and handling conditions (see section 7).		
10.5.	Incompatible materials		
No additic	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 effect	ts		
Acute toxicity (oral)	: Not classified		
Acute toxicity (dermal)	: Not classified		
Acute toxicity (inhalation)	: Not classified		
Skin corrosion/irritation	: Causes skin irritation.		
Serious eye damage/irritation	: Causes serious eye irritation.		
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
Germ cell mutagenicity	: Not classified		

Safety Data Sheet

according to Regulation (EU) 2015/830

Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
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 Dereistance and derendshilling	
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods :	Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	

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

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

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:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation.
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

SDS EU (REACH Annex II)



Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 11/01/2018 Version: 1.0

SECTION 1: Identification of the su	ibstance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Protein Digestibilty Assay Kit (Bottle 1)
Product code	: K-PDCAAS (Bottle1)
1.2. Relevant identified uses of the su	bstance or mixture and uses advised against
1.2.1. Relevant identified uses	
No additional information available	
1.2.2. Uses advised against	
No additional information available	
	and the stand
1.3. Details of the supplier of the safet	y data sheet
Megazyme	
Bray Business Park A98 YV29 Bray - Ireland	
T +353 12861220 - F +353 12861264	
cs@megazyme.com - www.megazyme.com	
1.4. Emergency telephone number	
Emergency number	: +353 12861220 [9 am to 5 pm GMT - Monday to Friday]
SECTION 2: Hazards identification	
2.1 Classification of the substance or	mixture

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2H315Serious eye damage/eye irritation, CategoryH31922Respiratory sensitisation, Category 1H334Specific target organ toxicity — SingleH335exposure, Category 3, Respiratory tractirritationFull text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

May cause respiratory irritation. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

2.2. Label elements

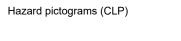
Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP)

	GHS07 GHS08
Signal word (CLP)	: Danger
Hazardous ingredients	: pepsin A
Hazard statements (CLP)	 H315 - Causes skin irritation. H319 - Causes serious eye irritation H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 - May cause respiratory irritation.
Precautionary statements (CLP)	 P261 - Avoid breathing dust. P264 - Wash hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves, protective clothing, eye protection P284 - [In case of inadequate ventilation] wear respiratory protection. P302+P352 - IF ON SKIN: Wash with plenty of water.

Safety Data Sheet

according to Regulation (EU) 2015/830

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





Hazardous ingredients

: pepsin A

2.3. **Other hazards**

No additional information available

SECT	ION 3: Composition/information on in	gredients		
3.1.	Substances			
Not app	blicable			
3.2.	Mixtures			
Nome		Broduct identifier	0/	Classification apporting to

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
pepsin A	(CAS-No.) 9001-75-6 (EC-No.) 232-629-3 (EC Index-No.) 647-008-00-6	100	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335

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. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/effects after inhalation	: May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECT	ION 5: Firefighting measures	
5.1.	Extinguishing media	
Suitable	e extinguishing media	: Water spray. Dry powder. Foam.
5.2.	Special hazards arising from the su	ubstance or mixture
Hazardo fire	ous decomposition products in case of	: Toxic fumes may be released.
5.3.	Advice for firefighters	
Protecti	on during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECT	ION 6: Accidental release mea	isures
6.1.	Personal precautions, protective e	quipment and emergency procedures
6.1.1.	For non-emergency personnel	
Emerge	ncy procedures	: Ventilate spillage area. Avoid breathing dust. Avoid contact with skin and eyes.

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	: Mechanically recover the product.
Other ir	nformation	: Dispose of materials or solid residues at an authorized site.
6.4.	Reference to other sections	
For furt	her information refer to section 13.	
SECT	ION 7: Handling and storage)
7.1.	Precautions for safe handling	
Precaut	tions for safe handling	: Use only outdoors or in a well-ventilated area. Avoid breathing dust. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene	e measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product Always wash hands after handling the product.
7.2.	Conditions for safe storage, incl	uding any incompatibilities
Storage	conditions	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
7.3.	Specific end use(s)	
No add	itional information available	
SECT	ION 8: Exposure controls/pe	ersonal protection
8.1.	Control parameters	
No add	itional information available	

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Protective gloves

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)		2 (< 1.5)	EN 374

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	Dust protection	EN 143, EN 149



Safety Data Sheet

according to Regulation (EU) 2015/830

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and cl	ne	mical properties
Physical state	:	Solid
Colour	:	No data available
Odour	:	No data available
Odour threshold	:	No data available
рН	:	No data available
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	No data available
Freezing point	:	Not applicable
Boiling point	:	No data available
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	Non flammable.
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	Not applicable
Solubility	:	No data available
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.

SECTION 11: Toxicological information				
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	: Causes skin irritation.			
Serious eye damage/irritation	: Causes serious eye irritation.			
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.			
Germ cell mutagenicity	: Not classified			

Safety Data Sheet

according to Regulation (EU) 2015/830

Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
STOT-single exposure	: May cause respiratory irritation.	
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 assessmen	t
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	\$
13.1. Waste treatment methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	

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

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

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:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation.
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

SDS EU (REACH Annex II)