

Amylose/Amylopectin Assay Kit

Kit SIS (Safety Information Sheet)

Issue date (US):11/20/2017 Revision date (US):4/11/2022 Supersedes (US):11/20/2017 Version (US):1.1

SECTION 1: Kit ide	entification	
1.1. Kit identifier		
Product name	: Amylose/Amylopectin Assay Kit	
Product code	: K-AMYL	
1.2. Details of the	supplier of the Kit safety information sheet	
Megazyme		
Bray Business Park		
A98 YV29 Bray - Ireland T +353 12861220 - F +3		

cs@megazyme.com - www.megazyme.com

SECTION 2: General information

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

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

SECTION 3: Kit contents

Name	General description	Quantity	Unit	GHS US classification
Amylose/Amylopectin Assay Kit (Bottle 1)	Buffer	1	pcs (pieces)	Resp. Sens. 1, H334 Skin Sens. 1, H317 Repr. 2, H361
Amylose/Amylopectin Assay Kit (Bottle 2)	Reagent	1	pcs (pieces)	Resp. Sens. 1, H334
Amylose/Amylopectin Assay Kit (Bottle 3)	Reagent	1	pcs (pieces)	Skin Irrit. 2, H315 Eye Dam. 1, H318
Amylose/Amylopectin Assay Kit (Bottle 4)	Reagent	1	pcs (pieces)	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334
Name	General description	Quantity	Unit	GHS US classification
Amylose/Amylopectin Assay Kit (Bottle 6)	Reagent	1	pcs (pieces)	Not classified
Amylose/Amylopectin Assay Kit (Bottle 5)	Reagent	1	pcs (pieces)	Not classified

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. 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/doctor/physician 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

Amylose/Amylopectin Assay Kit

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

SECTION 8: Other information

No data available



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SECTION 1: Identification				
1.1. Identification				
Product form	: Mixture			
Product name	: Amylose/Am	ylopectin Assay Kit (Bottle 5)		
Product code	: K-AMYL (Bo	ttle 5)		
1.2. Recommended use and	restrictions on use			
Use of the substance/mixture	: Use as labor	atory reagent		
1.3. Supplier				
Megazyme Bray Business Park Bray, A98 YV29 - Ireland T +353 12861220 - F +353 1286126 cs@megazyme.com - www.megazy				
1.4. Emergency telephone n	umber			
Emergency number	: +353 128612	20 [9 am to 5 pm GMT - Monda	ay to Friday]	
SECTION 2: Hozard(a)-idan	tification			
SECTION 2: Hazard(s) iden 2.1. Classification of the sub				
GHS US classification				
Not classified				
2.2. GHS Label elements, inc	luding precautionary state	nents		
GHS US labeling				
No labeling applicable				
2.3. Other hazards which do	not result in classification			
No additional information available	iner route in Studenhoutforr			
2.4. Unknown acute toxicity	(GHS US)			
Not applicable				
SECTION 3: Composition/I	nformation on ingredi	ents		
3.1. Substances				
Not applicable				
3.2. Mixtures				
This mixture does not contain any set	ubstances to be mentioned ac	ccording to the criteria of section	n 3.2 of HazCom 2012	
SECTION 4: First-aid meas	ures			
4.1. Description of first aid n	neasures			
First-aid measures after inhalation	: Remove pers	son to fresh air and keep comfo	rtable for breathing.	
First-aid measures after skin contac		ith plenty of water.		
First-aid measures after eye contact		vith water as a precaution.		
First-aid measures after ingestion	: Call a poison	center/doctor/physician if you f	feel unwell.	
4.2. Most important symptor	ns and effects (acute and d	elayed)		
4.3. Immediate medical atten	tion and special treatment,	if necessarv		
Treat symptomatically.	and epectar troutilont,			
	02511705			
SECTION 5: Fire-fighting m	easures			

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media

: Water spray. Dry powder. Foam. Carbon dioxide.

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		, 3		
5.2. Specific hazard	s arising from the chemica	l		
Hazardous decomposition fire	products in case of : To	xic fumes may be released.		
5.3. Special protecti	ve equipment and precaut	ions for fire-fighters		
Protection during firefightin		not attempt to take action w paratus. Complete protective		ipment. Self-contained breathing
	ntal release measures			
6.1. Personal preca	utions, protective equipme	nt and emergency procedu	Ires	
6.1.1. For non-emerge Emergency procedures		ntilate spillage area.		
6.1.2. For emergency	responders			
Protective equipment	: Do	not attempt to take action were to section 8: "Exposure co		ipment. For further information
6.2. Environmental	precautions			
Avoid release to the enviro	nment.			
6.3. Methods and m	aterial for containment and	I cleaning up		
Methods for cleaning up		ke up liquid spill into absorbe	ent material.	
Other information			sidues at an authorized site.	
6.4. Reference to ot	her sections			
For further information refe				
SECTION 7: Handlin	g and storage			
7.1. Precautions for				
Precautions for safe handli	•	sure good ventilation of the	work station. Wear personal	protective equipment.
Hygiene measures	•	•		wash hands after handling the
	pro	oduct.		
7.2. Conditions for s	safe storage, including any	incompatibilities		
Storage conditions	: Sto	ore in a well-ventilated place	. Keep cool.	
	re controlo/norconol	nrotootion		
	re controls/personal	protection		
8.1. Control parame	ters			
Amulaca/Amulanastin /	Accov Kit (Pottle E)			
Amylose/Amylopectin A No additional information				
8.2. Appropriate end	gineering controls			
Appropriate engineering co		sure good ventilation of the	work station	
Environmental exposure co		oid release to the environme		
8.3. Individual prote	ction measures/Personal p	protective equipment		
Hand protection:				
Protective gloves				
Туре	Material	Permeation	Thickness (mm)	Penetration
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)	,	
				2 (< 1.5)
Eye protection:				
Safety glasses				
Туре	Use	Characteristics		stics
Safety glasses	Drop	Proplet With side shields		nields
	•			
Skin and body protection	лі: 			
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Wear suitable protective clothing	
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Туре

Lab coat

OFOTION

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties				
9.1. Information on basic physical and chemical properties				
Physical state	: Liquid			
Color	: Colorless			
Odor	: None			
Odor threshold	: No data available			
рН	: No data available			
Melting point	: Not applicable			
Freezing point	: No data available			
Boiling point	: No data available			
Flash point	: No data available			
Relative evaporation rate (butyl acetate=1)	: No data available			
Flammability (solid, gas)	: Not applicable.			
Vapor pressure	: No data available			
Relative vapor density at 20 °C	: No data available			
Relative density	: No data available			
Solubility	: Soluble in water.			
Partition coefficient n-octanol/water (Log Pow)	: No data available			
Auto-ignition temperature	: No data available			
Decomposition temperature	: No data available			
Viscosity, kinematic	: No data available			
Viscosity, dynamic	: No data available			
Explosion limits	: No data available			
Explosive properties	: No data available			
Oxidizing properties	: No data available			

9.2. Other information

No additional information available

SECTION	SECTION 10: Stability and reactivity				
10.1.	Reactivity				
The prod	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 ha	zardous reactions
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No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

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

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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	ation
11.1. Information on toxicological effect	ts
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: 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
Viscosity, kinematic	: No data available
SECTION 12: Ecological informatic	on de la constante de la const

	en izi zoologioa intornation	
12.1.	Toxicity	
Ecology	- general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
12.2.	Persistence and degradability	
No addi	tional information available	
12.3.	Bioaccumulative potential	
No addi	tional information available	
12.4.	Mobility in soil	
No addi	tional information available	
12.5.	Other adverse effects	
No addi	tional information available	

SECTION 13: Disposal consideration	S	
13.1. Disposal methods		
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.	
SECTION 14: Transport information		
Department of Transportation (DOT) In accordance with DOT		
Not applicable		
Transportation of Dangerous Goods		
Not applicable		
Transport by sea		
Not applicable		
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Air transport

Not applicable

SECTION 15: Regulatory information
15.1. US Federal regulations
No additional information available
15.2. International regulations
CANADA No additional information available EU-Regulations No additional information available National regulations No additional information available
15.3. US State regulations
No additional information available
SECTION 16: Other information

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: 03/10/2022

SDS US (GHS HazCom 2012)

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



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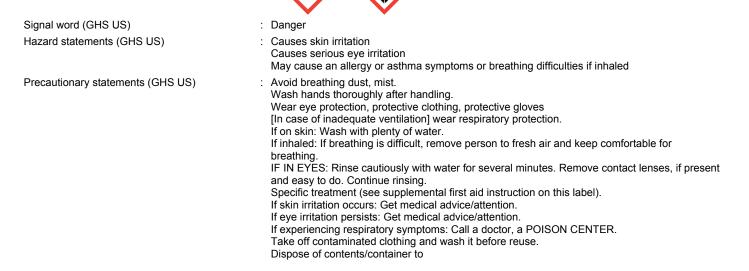
SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: Amylose/Amylopectin Assay Kit (Bottle 4)
Product code	: K-AMYL (Bottle 4)
1.2. Recommended use and restrictions	s on use
Use of the substance/mixture	: Use as laboratory reagent
1.3. Supplier	
Megazyme Bray Business Park Bray, A98 YV29 - 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: Hazard(s) identification	
2.1. Classification of the substance or r	nixture
GHS US classification	
Skin corrosion/irritation Category 2	Causes skin irritation

Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2 Respiratory sensitization, Category 1 Causes skin irritation Causes serious eye irritation May cause an allergy or asthma symptoms or breathing difficulties if inhaled

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)



2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

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SECTION 3: Composition/Information on ingredients

3.1. Substances Not applicable

3.2. Mixtures

Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
GLUCOSE OXIDASE		(CAS-No.) 9001-37-0	10 – 20	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Resp. Sens. 1, H334
4-aminoantipyrine	1,5-dimethyl-2-phenyl-4- aminopyrazoline / 1,5- dimethyl-2-phenyl-4- aminopyrazolone / 3H- pyrazol-3-one, 4-amino- 1,2-dihydro-1,5-dimethyl- 2-phenyl- / 3-pyrazolin-5- one, 4-amino-2,3- dimethyl-1-phenyl- / 4- AAP (=4-aminoantipyrene) / 4-amino-1,2-dihydro-1,5- dimethyl-2-phenyl-3H- pyrazol-3-one / 4-amino- 2,3-dimethyl-1-phenyl-3- pyrazolin-5-one / 4- aminoantipyrine / 4- aminoantipyrine / aminoantipyrine / aminoazophenazone / ampyrone / antipyrine, 4- amino- / metapirazone / solnapyrin-A	(CAS-No.) 83-07-8	10 – 20	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
HORSERADISH PEROXIDASE		(CAS-No.) 9003-99-0	1 – 5	Resp. Sens. 1, H334

Full text of hazard classes and 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/doctor/physician if you feel unwell.	
First-aid measures after inhalation	 Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor. 	
First-aid measures after skin contact	: Wash skin with plenty of water.	
First-aid measures after eye contact	: Rinse eyes with water as a precaution.	
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.	
4.2. Most important symptoms and effect	cts (acute and delayed)	
Symptoms/effects after inhalation	: May cause an allergy or asthma symptoms or breathing difficulties if inhaled.	
4.3. Immediate medical attention and special treatment, if necessary		
Treat symptomatically.		
SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguish	ning media	
Suitable extinguishing media	: Water spray. Dry powder. Foam.	
5.2. Specific hazards arising from the ch	nemical	
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	
5.3. Special protective equipment and p	recautions for fire-fighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	

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SECTION 6: Acciden	tal release measures				
6.1. Personal precau	.1. Personal precautions, protective equipment and emergency procedures				
6.1.1. For non-emerge	ncy personnel				
Emergency procedures	: Ver	tilate spillage area. Avoid brea	hing dust/fume/gas/mist/vap	pors/spray.	
6.1.2. For emergency	responders				
Protective equipment		not attempt to take action withon r to section 8: "Exposure contro		nent. For further information	
6.2. Environmental p	precautions				
Avoid release to the environ	nment.				
6.3. Methods and ma	aterial for containment and	cleaning up			
Methods for cleaning up	: Mee	chanically recover the product.			
Other information	: Dis	pose of materials or solid residu	les at an authorized site.		
6.4. Reference to oth	ner sections				
For further information refer	to section 13.				
SECTION 7: Handlin	g and storage				
7.1. Precautions for	safe handling				
Precautions for safe handlin		ure good ventilation of the worl athing dust/fume/gas/mist/vapo		tective equipment. Avoid	
Hygiene measures		not eat, drink or smoke when u duct.	sing this product. Always wa	ash hands after handling the	
7.2. Conditions for s	afe storage, including any	incompatibilities			
Storage conditions	: Sto	re in a well-ventilated place. Ke	ep cool.		
		and and an			
	re controls/personal p	rotection			
8.1. Control paramet	ers				
Amylose/Amylopectin A	ssav Kit (Bottle 4)				
No additional information					
4-aminoantipyrine (83-0					
No additional information	,				
HORSERADISH PEROX	DASE (9003-99-0)				
No additional information	available				
GLUCOSE OXIDASE (90	01-37-0)				
No additional information	available				
8.2. Appropriate eng	ineering controls				
Appropriate engineering co	ntrols : Ens	ure good ventilation of the worl	station.		
Environmental exposure co	ntrols : Avc	id release to the environment.			
8.3. Individual prote	ction measures/Personal p	rotective equipment			
Hand protection:					
Protective gloves					
Туре	Material	Permeation	Thickness (mm)	Penetration	
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)		2 (< 1.5)	
Eye protection:					
Safety glasses					

Туре	Use	Characteristics
Safety glasses	Dust	With side shields

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Skin and body protection:

Wear suitable protective clothing

Туре

Lab coat

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Wear respiratory protection.

Device	Filter type	Condition
Dust mask	Туре Р1	Dust protection

Personal protective equipment symbol(s):



9.1. Information on basic physical and o	hemical properties
Physical state	: Solid
Color	 Mixture contains one or more component(s) which have the following colour(s): Light yellow to brown
Odor	: None
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: Not applicable
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

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10.3.	Possibility of hazardous reactions
No dang	gerous reactions known under normal conditions of use.
10.4.	Conditions to avoid
None u	nder recommended storage and handling conditions (see section 7).
10.5.	Incompatible materials
No addi	itional information available
10.6.	Hazardous decomposition products
Under r	normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
4-aminoantipyrine (83-07-8)	
LD50 oral rat	1700 mg/kg rat
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause an allergy or asthma symptoms or breathing difficulties if inhaled.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
4-aminoantipyrine (83-07-8)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after inhalation	: May cause an allergy or asthma symptoms or breathing difficulties if inhaled.
SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
12.2. Persistence and degradability	
4-aminoantipyrine (83-07-8)	
Persistence and degradability	Biodegradability in water: no data available.

12.3. Bioaccumulative potential	
4-aminoantipyrine (83-07-8)	
Partition coefficient n-octanol/water (Log Pow)	-0.07 (estimated value)
Bioaccumulative potential	Bioaccumulation unlikely.

12.4. Mobility in soil

No additional information available

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12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considera 13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport informati	ion
Department of Transportation (DOT) In accordance with DOT	
Not applicable	
Transportation of Dangerous Goods	
Not applicable	
Transport by sea	
Not applicable	
Air transport	
Not applicable	
SECTION 15: Regulatory informa	tion
15.1. US Federal regulations	
No additional information available	
15.2. International regulations	
CANADA No additional information available EU-Regulations No additional information available National regulations No additional information available	
15.3. US State regulations	
No additional information available	

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Revision date

: 03/10/2022

SDS US (GHS HazCom 2012)

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



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Negazyme	Issue date: 11/21/2017	Revision date: 03/10/2022	Supersedes: 11/20/20	017 Version: 1.0
SECTION 1: Identification				
1.1. Identification				
Product form	: Mixture			
Product name	: Amylose/Ar	nylopectin Assay Kit (Bottle 3)		
Product code	: K-AMYL (Be			
1.2. Recommended use and				
Use of the substance/mixture		pratory reagent		
1.3. Supplier				
Megazyme Bray Business Park Bray, A98 YV29 - Ireland T +353 12861220 - F +353 128612 <u>cs@megazyme.com</u> - <u>www.megaz</u>				
1.4. Emergency telephone	number			
Emergency number	: +353 12861	220 [9 am to 5 pm GMT - Mon	iday to Friday]	
SECTION 2: Hazard(s) ide	ntification			
2.1. Classification of the su	bstance or mixture			
GHS US classification				
Skin corrosion/irritation Category 2		ses skin irritation		
Serious eye damage/eye irritation	Category 1 Caus	ses serious eye damage		
2.2. GHS Label elements, ir	cluding precautionary state	ements		
GHS US labeling				
Signal word (GHS US) Hazard statements (GHS US)	: Danger : Causes skir			
Precautionary statements (GHS US	S) : Wash hand Wear eye p If on skin: V IF IN EYES and easy to Immediately Specific trea If skin irritat	ious eye damage s thoroughly after handling. rotection, protective clothing, p Vash with plenty of water. : Rinse cautiously with water for do. Continue rinsing. y call a doctor, a POISON CEN atment (see supplemental first ion occurs: Get medical advice ntaminated clothing and wash i	or several minutes. Remo ITER. aid instruction on this lab e/attention.	
2.3. Other hazards which de	o not result in classification			
No additional information available				
2.4. Unknown acute toxicity	(GHS US)			
Not applicable				
SECTION 3: Composition/	Information on ingred	ients		
3.1. Substances				
Not applicable				
3.2. Mixtures				
Name	Common I (Synonym		ifier %	GHS US classification
sodium hydroxide, caustic soda		(CAS-No.) 1310-7	3-2 1 – 5	Skin Corr. 1A, H314
		· · · · ·	· · · ·	

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Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
4-HYDROXYBENZOIC ACID		(CAS-No.) 99-96-7	1 – 5	Eye Dam. 1, H318 STOT SE 3, H335

Full text of hazard classes and H-statements : see section 16

Full text of fidzard classes and fi-statements . s	
SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	: IF exposed or concerned: Get medical advice/attention.
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. 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. Call a physician immediately.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and effe	ects (acute and delayed)
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Serious damage to eyes.
4.3. Immediate medical attention and s	pecial treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguis	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from the c	chemical
Hazardous decomposition products in case of	: Toxic fumes may be released.
fire	
5.3. Special protective equipment and p	precautions for fire-fighters
5.3. Special protective equipment and protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Protection during firefighting SECTION 6: Accidental release mea	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective e	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective e 6.1.1. For non-emergency personnel	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. asures equipment and emergency procedures
Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective e 6.1.1. For non-emergency personnel	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective e	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. asures cquipment and emergency procedures Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with
Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective er 6.1.1. For non-emergency personnel Emergency procedures	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. asures cquipment and emergency procedures Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with
Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective en 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment	 Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. asures equipment and emergency procedures Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Do not attempt to take action without suitable protective equipment. For further information
Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective e 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions	 Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. asures equipment and emergency procedures Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Do not attempt to take action without suitable protective equipment. For further information
Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective e 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Avoid release to the environment.	 Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. asures equipment and emergency procedures Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective en 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Avoid release to the environment.	 Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. asures equipment and emergency procedures Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective e 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for containm Methods for cleaning up	 Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. asures acquipment and emergency procedures Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective ef 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for containm Methods for cleaning up Other information	 Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. asures aquipment and emergency procedures Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Protection during firefighting SECTION 6: Accidental release meads 6.1. Personal precautions, protective end 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for containm Methods for cleaning up Other information 6.4. Reference to other sections	 Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. asures aquipment and emergency procedures Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective e 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for containm Methods for cleaning up Other information 6.4. Reference to other sections For further information refer to section 13.	 Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. asures aquipment and emergency procedures Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Protection during firefighting SECTION 6: Accidental release meads 6.1. Personal precautions, protective end 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for containment Methods for cleaning up Other information 6.4. Reference to other sections For further information refer to section 13. SECTION 7: Handling and storage	 Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. asures aquipment and emergency procedures Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Protection during firefighting SECTION 6: Accidental release meads 6.1. Personal precautions, protective end 6.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for containment Methods for cleaning up Other information 6.4. Reference to other sections For further information refer to section 13. SECTION 7: Handling and storage 7.1. Precautions for safe handling	 Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. asures aquipment and emergency procedures Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". nent and cleaning up Take up liquid spill into absorbent material. Dispose of materials or solid residues at an authorized site.
Protection during firefighting SECTION 6: Accidental release meads 6.1. Personal precautions, protective end 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for containment Methods for cleaning up Other information 6.4. Reference to other sections For further information refer to section 13. SECTION 7: Handling and storage	 Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. asures aquipment and emergency procedures Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

Amylose/Amylopectin Assay Kit (Bottle 3)

No additional information available

sodium hydroxide, caustic soda (1310-73-2)

No additional information available

4-HYDROXYBENZOIC ACID (99-96-7)

No additional information available

8.2. **Appropriate engineering controls**

Appropriate engineering controls Environmental exposure controls : Ensure good ventilation of the work station. : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

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

Eye protection:

Safety glasses

Туре	Use	Characteristics
Safety glasses	Droplet	With side shields

Skin and body protection:

Wear suitable protective clothing

Туре	
Lab coat	

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9: Physical and chemic	al properties	
9.1. Information on basic physical a	nd chemical properties	
Physical state	: Liquid	
Color	: Colorless	
Odor	: None	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: Not applicable	
Freezing point	: No data available	
05/20/2022	EN (English US)	16/35

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Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

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

Hazardous decomposition products 10.6.

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

SECTION 11: Toxicological informat	ion	
11.1. Information on toxicological effects		
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye damage.	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
STOT-single exposure	: Not classified	
4-HYDROXYBENZOIC ACID (99-96-7)		
STOT-single exposure	May cause respiratory irritation.	
STOT-repeated exposure	: Not classified	
05/20/2022	EN (English US)	17/35

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Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Serious damage to eyes.
	v
SECTION 12: Ecological informatio	n
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
42.4 Mobility in soil	
12.4. Mobility in soil No additional information available	
12.5. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	ons
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	
	•
Department of Transportation (DOT)	
Department of Transportation (DOT)	
Department of Transportation (DOT) In accordance with DOT	
Department of Transportation (DOT) In accordance with DOT Not applicable	
Department of Transportation (DOT) In accordance with DOT Not applicable Transportation of Dangerous Goods Not applicable	
Department of Transportation (DOT) In accordance with DOT Not applicable Transportation of Dangerous Goods Not applicable Transport by sea	
Department of Transportation (DOT) In accordance with DOT Not applicable Transportation of Dangerous Goods Not applicable Transport by sea Not applicable	
Department of Transportation (DOT) In accordance with DOT Not applicable Transportation of Dangerous Goods Not applicable Transport by sea Not applicable Air transport	
Department of Transportation (DOT) In accordance with DOT Not applicable Transportation of Dangerous Goods Not applicable Transport by sea Not applicable Air transport Not applicable	
Department of Transportation (DOT)In accordance with DOTNot applicableTransportation of Dangerous GoodsNot applicableTransport by seaNot applicableAir transportNot applicableSECTION 15: Regulatory information	
Department of Transportation (DOT) In accordance with DOT Not applicable Transportation of Dangerous Goods Not applicable Transport by sea Not applicable Air transport Not applicable SECTION 15: Regulatory information 15.1. US Federal regulations	
Department of Transportation (DOT) In accordance with DOT Not applicable Transportation of Dangerous Goods Not applicable Transport by sea Not applicable Air transport Not applicable SECTION 15: Regulatory information 15.1. US Federal regulations No additional information available	
Department of Transportation (DOT) In accordance with DOT Not applicable Transportation of Dangerous Goods Not applicable Transport by sea Not applicable Air transport Not applicable SECTION 15: Regulatory information 15.1. US Federal regulations No additional information available 15.2. International regulations	
Department of Transportation (DOT) In accordance with DOT Not applicable Transportation of Dangerous Goods Not applicable Transport by sea Not applicable Air transport Not applicable SECTION 15: Regulatory information 15.1. US Federal regulations No additional information available	
Department of Transportation (DOT) In accordance with DOT Not applicable Transportation of Dangerous Goods Not applicable Transport by sea Not applicable Air transport Not applicable SECTION 15: Regulatory information 15.1. US Federal regulations No additional information available 15.2. International regulations No additional information available EU-Regulations	
Department of Transportation (DOT) In accordance with DOT Not applicable Transportation of Dangerous Goods Not applicable Transport by sea Not applicable Air transport Not applicable SECTION 15: Regulatory information 15.1. US Federal regulations No additional information available 15.2. International regulations CANADA No additional information available	
Department of Transportation (DOT) In accordance with DOT Not applicable Transportation of Dangerous Goods Not applicable Transport by sea Not applicable Air transport Not applicable SECTION 15: Regulatory information 15.1. US Federal regulations No additional information available 15.2. International regulations No additional information available EU-Regulations No additional information available Not additional information available No additional information available National regulations No additional information available	
Department of Transportation (DOT) In accordance with DOT Not applicable Transportation of Dangerous Goods Not applicable Transport by sea Not applicable Air transport Not applicable SECTION 15: Regulatory information 15.1. US Federal regulations No additional information available 15.2. International regulations No additional information available EU-Regulations No additional information available No additional information available No additional information available EU-Regulations No additional information available No additional information available No additional information available	

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SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date

: 03/10/2022

SDS US (GHS HazCom 2012)

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



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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 11/20/2017 Revision date: 03/10/2022 Supersedes: 11/20/2017 Version: 1.0

IVI-3		1/20/2017 Revision	date: 03/10/2022	Supersedes: 11/20/201	Version: 1.0
SECTION 1: Id	entification				
1.1. Identifica	ation				
Product form	:	Mixture			
Product name	:	Amylose/Amylopectin Ass	ay Kit (Bottle 2)		
Product code	:	K-AMYL (Bottle 2)			
1.2. Recomm	ended use and restrictions or	n use			
Use of the substand	ce/mixture :	Use as laboratory reagen	t		
1.3. Supplier					
Megazyme Bray Business Park Bray, A98 YV29 - Ir T +353 12861220 - cs@megazyme.com	reland				
1.4. Emerger	ncy telephone number				
Emergency number	r :	+353 12861220 [9 am to s	5 pm GMT - Monday to) Friday]	
SECTION 2: Ha	azard(s) identification				
2.1. Classific	ation of the substance or mixt	ture			
GHS US classifica	tion				
Respiratory sensitiz	zation, Category 1	May cause an aller	gy or asthma symptom	ns or breathing difficu	Ities if inhaled
2.2. GHS Lab	el elements, including precau	tionary statements			
GHS US labeling					
Hazard pictograms	(GHS US) :				
Signal word (GHS I	JS) :	Danger			
Hazard statements		May cause an allergy or a	sthma symptoms or bi	eathing difficulties if	inhaled
Precautionary state	ements (GHS US) :	Avoid breathing spray, mi [In case of inadequate ver If inhaled: If breathing is d breathing. If experiencing respiratory Dispose of contents/conta	st. ntilation] wear respirato ifficult, remove person symptoms: Call a doo	bry protection. to fresh air and keep	comfortable for
2.3. Other ha	zards which do not result in c	lassification			
No additional inform	nation available				
2.4. Unknow	n acute toxicity (GHS US)				
Not applicable					
SECTION 3: Co	omposition/Information	on ingredients			
3.1. Substan					
Not applicable					
3.2. Mixtures	i				
Name		Common Name (Synonyms)	Product identifier	%	GHS US classification
AMYLOGLUCOSID	ASE		(CAS-No.) 9032-08-0	1 – 5	Resp. Sens. 1, H334

Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
AMYLOGLUCOSIDASE		(CAS-No.) 9032-08-0	1 – 5	Resp. Sens. 1, H334
Amylase, α-, Aspergillus oryzae		(CAS-No.) 9001-19-8	0.1 – 1	Resp. Sens. 1, H334

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Full text of	of hazard classes and H-statements : see	section 16
SECTIO	ON 4: First-aid measures	
4.1.	Description of first aid measures	
First-aid r	measures after inhalation	Remove person to fresh air and keep comfortable for breathing.
First-aid r	neasures after skin contact	Wash skin with plenty of water.
First-aid r	measures after eye contact	Rinse eyes with water as a precaution.
First-aid r	measures after ingestion	Call a poison center/doctor/physician if you feel unwell.
4.2.	Most important symptoms and effects	acute and delayed)
4.3.	Immediate medical attention and spec	ial treatment, if necessary
	nptomatically.	,
-	ON 5: Fire-fighting measures	
5.1.	Suitable (and unsuitable) extinguishir	ur modio
		: Water spray. Dry powder. Foam. Carbon dioxide.
5.2.	Specific hazards arising from the che	
fire	is decomposition products in case of	Toxic fumes may be released.
5.3.	Special protective equipment and pre	cautions for fire-fighters
Protection	n during firefighting	Do not attempt to take action without suitable protective equipment. Self-contained breathing
		apparatus. Complete protective clothing.
SECTIO	DN 6: Accidental release measu	ires
6.1.	Personal precautions, protective equi	pment and emergency procedures
6.1.1.	For non-emergency personnel	
_		Ventilate spillage area.
-	-, -, -, -, -, -, -, -, -, -, -, -, -, -	
6.1.2.	For emergency responders	
Protective	e equipment	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2.	Environmental precautions	
Avoid rele	ease to the environment.	
6.3.	Methods and material for containment	t and cleaning up
		Take up liquid spill into absorbent material.
Other info		Dispose of materials or solid residues at an authorized site.
6.4.	Reference to other sections	·····
••••	er information refer to section 13.	
	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
	ns for safe handling	Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene ı	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 of	conditions	Store in a well-ventilated place. Keep cool.
	ON 8: Exposure controls/perso	nal protection
8.1.	Control parameters	
Amylos	e/Amylopectin Assay Kit (Bottle 2)	

No additional information available

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AMYLOGLUCOSIDASE (9032-08-0)	
No additional information available	
Amylase, α-, Aspergillus oryzae (9001-19-8)	
No additional information available	

8.2. Appropriate engineering controls

Appropriate engineering controls Environmental exposure controls Ensure good ventilation of the work station.Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

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

Eye protection:

Safety glasses

Туре	Use	Characteristics
Safety glasses	Droplet	With side shields

Skin and body protection:

Wear suitable protective clothing

Туре	
Lab coat	

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and	d chemical properties	
Physical state	: Liquid	
Color	: Colorless	
Odor	: None	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: Not applicable	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: Not applicable.	
Vapor pressure	: No data available	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Solubility	: Soluble in water.	

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Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

No additional information available			
SECTION 10: Stability and react	ivity		
10.1. Reactivity	.1. Reactivity		
The product is non-reactive under normal of	conditions of use, storage and transport.		
10.2. Chemical stability			
Stable under normal conditions.			
10.3. Possibility of hazardous reacti	ons		
No dangerous reactions known under norm	nal conditions of use.		
10.4. Conditions to avoid			
None under recommended storage and ha	ndling conditions (see section 7).		
10.5. Incompatible materials			
No additional information available			
10.6. Hazardous decomposition pro	ducts		
Under normal conditions of storage and us	e, hazardous decomposition products should not be produced.		
SECTION 11: Toxicological info	rmation		
11.1. Information on toxicological ef			
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 sensitization	: May cause an allergy or asthma symptoms or breathing difficulties if inhaled.		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Depreductive toxicity	. Not clossified		
Reproductive toxicity	: Not classified		
STOT-single exposure	: Not classified		
C 1			
STOT-repeated exposure	: Not classified		

SECTI	ON 12: Ecological information	
12.1.	Toxicity	
Ecology	- general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
12.2.	Persistence and degradability	
No additi	onal information available	

Aspiration hazard

Viscosity, kinematic

: Not classified

: No data available

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13.1.

SECTION 13: Disposal considerations

Disposal methods

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12.3.	Bioaccumulative potential		
No addi	itional information available		
12.4.	Mobility in soil		
No addi	itional information available		
12.5.	Other adverse effects		
No addi	itional information available		

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport inform	ation
Department of Transportation (DOT) In accordance with DOT	
Not applicable	
Transportation of Dangerous Goods	
Not applicable	
Transport by sea	
Not applicable	
Air transport	
Not applicable	
SECTION 15: Regulatory inform	nation
15.1. US Federal regulations	
No additional information available	
15.2. International regulations	

CANADA
No additional information available
EU-Regulations
No additional information available
National regulations
No additional information available
15.3. US State regulations

No additional information available

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date

: 03/10/2022

SDS US (GHS HazCom 2012)

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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 11/20/2017 Revision date: 03/10/2022 Supersedes: 11/20/2017 Version: 1.0

Iss Iss	ue date: 11/20/2017	Revision date: 03/10/2022	Supersedes: 11/20/2017	Version: 1.0
SECTION 1: Identification				
1.1. Identification				
Product form	: Mixture			
Product name	: Amylose/Am	ylopectin Assay Kit (Bottle 1)		
Product code	: K-AMYL (Bo	ttle 1)		
I.2. Recommended use and restric	tions on use			
Jse of the substance/mixture	: Use as labor	atory reagent		
1.3. Supplier				
Megazyme Bray Business Park Bray, A98 YV29 - Ireland F +353 12861220 - F +353 12861264 <u>cs@megazyme.com</u> - <u>www.megazyme.co</u>	<u>m</u>			
1.4. Emergency telephone number				
Emergency number	: +353 128612	220 [9 am to 5 pm GMT - Mond	ay to Friday]	
SECTION 2: Hazard(s) identifica	tion			
2.1. Classification of the substance	e or mixture			
GHS US classification				
Respiratory sensitization, Category 1 Skin sensitization, Category 1 Reproductive toxicity Category 2	May c	ause an allergy or asthma sym ause an allergic skin reaction ected of damaging fertility or the		if inhaled
2.2. GHS Label elements, including	g precautionary state	ments		
GHS US labeling				
Hazard pictograms (GHS US)		>		
Signal word (GHS US)	: Danger			
Hazard statements (GHS US)	May cause a	n allergic skin reaction n allergy or asthma symptoms f damaging fertility or the unbor		ed
Precautionary statements (GHS US)	Do not handl Avoid breath Contaminate Wear eye prr [In case of in If on skin: Wi If inhaled: If I breathing. If exposed or Specific treat If skin irritatio If experiencir	d work clothing must not be allo betection, protective clothing, pro adequate ventilation] wear resp ash with plenty of water. breathing is difficult, remove pe concerned: Get medical advice tment (see supplemental first a on or rash occurs: Get medical ng respiratory symptoms: Call a ninated clothing before reuse.	owed out of the workplace. otective gloves oiratory protection. rson to fresh air and keep con e/attention. id instruction on this label). advice/attention.	nfortable for

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

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3.1.	Substances				
Not appl	icable				
3.2.	Mixtures				
Name		Common Name (Synonyms)	Product identifier	%	GHS US classification
concana	avalin A	A (= concanavalin A) / CON A (= concanavalin A) / NSC 143504 / ricin toxin con A	(CAS-No.) 11028-71-0	100	Resp. Sens. 1, H334 Skin Sens. 1, H317 Repr. 2, H361
Full text	of hazard classes and H-statements : see	section 16			
	ON 4: First-aid measures				
4.1.	Description of first aid measures				
		: Remove person to fresh a		le for breathing	g.
	measures after skin contact	: Wash skin with plenty of v			
	measures after eye contact	: Rinse eyes with water as	•		
First-aid	measures after ingestion	: Call a poison center/docto	or/physician if you feel	unwell.	
4.2.	Most important symptoms and effects	s (acute and delayed)			
4.3.	Immediate medical attention and spec	cial treatment. if necessar	V		
	mptomatically.	,			
-					
	ON 5: Fire-fighting measures				
5.1.	Suitable (and unsuitable) extinguishin		Foom		
Suitable		: Water spray. Dry powder.	. ⊢oam.		
5.2.	Specific hazards arising from the che				
Hazardo fire	us decomposition products in case of	: Toxic fumes may be relea	ased.		
5.3.	Special protective equipment and pre	cautions for fire-fighters			
Protectic	on during firefighting	: Do not attempt to take ac apparatus. Complete prot		otective equip	ment. Self-contained breathing
SECTI	ON 6: Accidental release measu	ures			
6.1.	Personal precautions, protective equi	ipment and emergency pro	ocedures		
6.1.1.	For non-emergency personnel				
Emerger		: Ventilate spillage area.			
6.1.2.	For emergency responders	Do not attained to take	tion without as the bla	ata ativa a mut	mont For further information
PIOTECTIV	e equipment	: Do not attempt to take ac refer to section 8: "Exposi-			ment. For further information
6.2.	Environmental precautions				
	lease to the environment.				
6.3. Mothodo	Methods and material for containmen		product		
	hods for cleaning up : Mechanically recover the product.				
Utner inf	formation	: Dispose of materials or so	bild residues at an auth	iorized site.	
6.4.	Reference to other sections				
For furth	er information refer to section 13.				
SECTI	ON 7: Handling and storage				
7.1.	Precautions for safe handling				
Precauti	ons for safe handling	: Ensure good ventilation o	f the work station. Wea	ar personal pro	otective equipment.
	measures	: Do not eat, drink or smoke product.	e when using this prod	uct. Always wa	ash hands after handling the

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

Amylose/Amylopectin Assay Kit (Bottle 1)

No additional information available	
concanavalin A (11028-71-0)	
No additional information available	

8.2. Appropriate engineering controls

Appropriate engineering controls
Environmental exposure controls

: Ensure good ventilation of the work station. : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

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

Eye protection:

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Safety glasses
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Туре	Use	Characteristics
Safety glasses	Dust	With side shields

Skin and body protection:

Wear suitable protective clothing

Туре	
Lab coat	

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical	properties	
9.1. Information on basic physical and	chemical properties	
Physical state	: Solid	
Color	: Mixture contains one or more component(s) which have the following colour(s): No data available on colour	
Odor	: None	
Odor threshold	: No data available	
pH	: No data available	
Melting point : No data available		
reezing point : Not applicable		
Boiling point	: No data available	
Flash point	: No data available	
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Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: Not applicable
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECT	ON 10:	Stability a	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).

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 sensitization	: May cause an allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available

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SECT	ION 12: Ecological informatio	n
12.1.	Toxicity	
Ecology	/ - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
12.2	Persistence and degradability	

concanavalin A (11028-71-0)		
Persistence and degradability	Biodegradability in water: no data available.	
12.3. Bioaccumulative potential		
concanavalin A (11028-71-0)		

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal consideratio	ns
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	
Department of Transportation (DOT) In accordance with DOT	
Not applicable	
Transportation of Dangerous Goods	
Not applicable	
Transport by sea	
Not applicable	
Air transport	
Not applicable	
SECTION 15: Regulatory informatio	n
15.1. US Federal regulations	
No additional information available	
15.2. International regulations	
CANADA No additional information available	
EU-Regulations	
No additional information available National regulations	
No additional information available	
15.3. US State regulations	
No additional information available	
SECTION 16: Other information	

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SDS US (GHS HazCom 2012)

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 Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 01/23/2018 Revision date: 03/10/2022 Supersedes: 01/23/2018 Version: 1.0

SECTION 1: Identification				
1.1. Identification				
Product form	: Mixture			
Product name	: Amylose/Am	ylopectin Assay Kit (Bottle 6)		
Product code	: K-AMYL (Bo	ttle 6)		
1.2. Recommended use and	restrictions on use			
Use of the substance/mixture	: Use as labor	atory reagent		
1.3. Supplier				
Megazyme Bray Business Park Bray, A98 YV29 - Ireland T +353 12861220 - F +353 1286126 <u>cs@megazyme.com</u> - <u>www.megazy</u>				
1.4. Emergency telephone n	umber			
Emergency number	: +353 128612	220 [9 am to 5 pm GMT - Mond	ay to Friday]	
SECTION 2: Hazard(s) iden	tification			
2.1. Classification of the sub	ostance or mixture			
GHS US classification				
Not classified				
2.2. GHS Label elements. inc	cluding precautionary state	monte		
GHS US labeling	cluding precautionaly state	inents		
No labeling applicable				
2				
2.3. Other hazards which do	not result in classification			
No additional information available				
2.4. Unknown acute toxicity	(GHS US)			
Not applicable				
SECTION 3: Composition/I	nformation on ingredi	ents		
3.1. Substances				
Not applicable				
3.2. Mixtures				
This mixture does not contain any s		ccording to the criteria of sectio	n 3.2 of HazCom 2012	
SECTION 4: First-aid meas				
4.1. Description of first aid n		an to freely also and because of	wheels for her attrive	
First-aid measures after inhalation First-aid measures after skin contac		son to fresh air and keep comfo	preaching.	
First-aid measures after eye contact		ith plenty of water. vith water as a precaution.		
First-aid measures after ingestion		n center/doctor/physician if you	feel unwell	
-				
4.2. Most important symptor	ns and effects (acute and d	elayed)		
4.3. Immediate medical atter	ntion and special treatment,	if necessary		
Treat symptomatically.				
	neasures			

Suitable extinguishing media

: Water spray. Dry powder. Foam.

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5.2. Specific hazards					
	arising from the cher	nical			
Hazardous decomposition p fire	roducts in case of :	Toxic fumes may be released.			
5.3. Special protectiv	e equipment and prec	cautions for fire-fighters			
Protection during firefighting	:	Do not attempt to take action wi apparatus. Complete protective		otective equipme	nt. Self-contained breathing
SECTION 6: Accident					
6.1. Personal precaut	tions, protective equip	oment and emergency procedu	res		
6.1.1. For non-emerger Emergency procedures		Ventilate spillage area.			
6.1.2. For emergency r	esponders				
Protective equipment	:	Do not attempt to take action wi refer to section 8: "Exposure co			nt. For further information
6.2. Environmental p	recautions				
Avoid release to the environ	ment.				
6.3. Methods and ma	terial for containment	and cleaning up			
Methods for cleaning up	:	Mechanically recover the produc	ct.		
Other information	:	Dispose of materials or solid res	idues at an auth	orized site.	
6.4. Reference to oth	er sections				
For further information refer	to section 13.				
SECTION 7: Handling	g and storage				
7.1. Precautions for s	afe handling				
Precautions for safe handlin	g :	Ensure good ventilation of the w		• •	
Hygiene measures	:	Do not eat, drink or smoke when product.	h using this prod	uct. Always wash	hands after handling the
7.2. Conditions for sa	afe storage, including	any incompatibilities			
Storage conditions		Store in a well-ventilated place.	Keep cool.		
SECTION 8: Exposur	-	al protection			
	ers				
8.1. Control paramete					
8.1. Control parameter Amylose/Amylopectin As	ssay Kit (Bottle 6)				
8.1. Control paramete	ssay Kit (Bottle 6)				
8.1. Control parameter Amylose/Amylopectin As No additional information a	ssay Kit (Bottle 6) available				
8.1. Control parameter Amylose/Amylopectin As No No additional information a 8.2.	available neering controls	Ensure good ventilation of the w	vork station.		
B.1. Control parameter Amylose/Amylopectin As No additional information a B.2. Appropriate engineering control	available neering controls trols :	Ensure good ventilation of the w Avoid release to the environmer			
 8.1. Control parameter Amylose/Amylopectin As No additional information a 8.2. Appropriate engineering content Environmental exposure content 	available neering controls htrols :	Avoid release to the environmer			
 8.1. Control parameter Amylose/Amylopectin As No additional information a 8.2. Appropriate engineering con Environmental exposure cor 8.3. Individual protection 	available neering controls htrols :	•			
 8.1. Control parameter Amylose/Amylopectin As No additional information a 8.2. Appropriate engineering content Appropriate engineering content Environmental exposure cortex 8.3. Individual protection: 	available neering controls htrols :	Avoid release to the environmer			
 8.1. Control parameter Amylose/Amylopectin As No additional information a 8.2. Appropriate engineering con Environmental exposure cor 8.3. Individual protection 	ssay Kit (Bottle 6) available neering controls ntrols : ntrols : tion measures/Persor	Avoid release to the environmer	nt.		
B.1. Control parameter Amylose/Amylopectin As No additional information at B.2. Appropriate engineering content Appropriate engineering content Control parameter B.3. Individual protect B.3. Individual protect Hand protection: Control parameter	available neering controls htrols :	Avoid release to the environmer		s (mm)	Penetration
 8.1. Control parameter Amylose/Amylopectin As No additional information a 8.2. Appropriate engineering con Environmental exposure cor 8.3. Individual protection: Hand protection: Protective gloves 	ssay Kit (Bottle 6) available neering controls ntrols : ntrols : tion measures/Persor	Avoid release to the environmer	nt.	s (mm)	Penetration 2 (< 1.5)
B.1. Control parameter Amylose/Amylopectin As No additional information at B.2. Appropriate engineering content Appropriate engineering content Control parameter B.3. Individual protect Hand protection: Protective gloves Type Control parameter	Available Available Anterial Material Available Anterial Available Anterial Available Anterial Available Anterial Available Availa	Avoid release to the environmer nal protective equipment Permeation	nt.	s (mm)	
B.1. Control parameter Amylose/Amylopectin As No No additional information a Another B.2. Appropriate engineering comprises Appropriate engineering comprises Control parameter B.3. Individual protection: Protective gloves Type Disposable gloves Control parameter	Available Available Anterial Material Available Anterial Available Anterial Available Anterial Available Anterial Available Availa	Avoid release to the environmer nal protective equipment Permeation	nt.	s (mm)	
 8.1. Control parameter Amylose/Amylopectin As No additional information a 8.2. Appropriate engineering content Appropriate engineering content Environmental exposure cortex 8.3. Individual protection: Protective gloves Type Disposable gloves Eye protection: 	ssay Kit (Bottle 6) available neering controls ntrols : titols : tion measures/Persor Material Nitrile rubber (NBR)	Avoid release to the environmer nal protective equipment Permeation	nt. Thicknes	s (mm) Characteristics	
 8.1. Control parameter Amylose/Amylopectin As No additional information a 8.2. Appropriate engineering contention Appropriate engineering contention Environmental exposure cortex 8.3. Individual protection: Protective gloves Type Disposable gloves Eye protection: Safety glasses 	ssay Kit (Bottle 6) available meering controls itrols : tion measures/Persor Material Nitrile rubber (NBR)	Avoid release to the environment nal protective equipment Permeation 3 (> 60 minutes)	nt. Thicknes		
8.1. Control parameter Amylose/Amylopectin As No additional information a No additional information a Appropriate engineering content 8.2. Appropriate engineering content Environmental exposure cortext And protection: B.3. Individual protect Hand protection: Protective gloves Type Disposable gloves Eye protection: Safety glasses Type Safety glasses	ssay Kit (Bottle 6) available neering controls ttrols : ttrols : ttion measures/Persor Material Nitrile rubber (NBR)	Avoid release to the environment nal protective equipment Permeation 3 (> 60 minutes) Jse	nt. Thicknes	Characteristics	

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Wear suitable protective clothing	
Туре	
Lab coat	

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition
Dust mask	Туре Р1	Protection for Solid particles

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Color	: white	
Odor	: None	
Odor threshold	: No data available	
pH	: No data available	
Melting point	: No data available	
Freezing point	: Not applicable	
Boiling point	: No data available	
Flash point	: Not applicable	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: Non flammable.	
Vapor pressure	: No data available	
Relative vapor density at 20 °C	: No data available	
Relative density	: Not applicable	
Solubility	: Soluble in water.	
Partition coefficient n-octanol/water (Log Pow)	: No data available	
Auto-ignition temperature	: Not applicable	
Decomposition temperature	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosion limits	: Not applicable	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
9.2. Other information		
No additional information available		

SECTI	ON 10: Stability and reactivity
10.1.	Reactivity
The prod	uct is non-reactive under normal conditions of use, storage and transport.
10.2.	Chemical stability
Stable ur	nder normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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10.4. Conditions to avoid

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

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological informa	tion
11.1. Information on toxicological effects	\$
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 sensitization	: 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
Viscosity, kinematic	: No data available

SECTION 12: Ecological information			
12.1.	Toxicity		
Ecology	- general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.	
12.2.	Persistence and degradability		
No addi	tional information available		
12.3.	Bioaccumulative potential		
No addi	tional information available		
12.4.	Mobility in soil		
No addi	tional information available		
12.5.	Other adverse effects		
No addi	tional information available		

SECTION 13: Disposal c	onsiderations
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport	nformation
Department of Transportation	(DOT)
In accordance with DOT	

Not applicable

Transportation of Dangerous Goods

Not applicable

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Transport by sea

Not applicable

Air transport

Not applicable

15.1. US Federal regulations No additional information available 15.2. International regulations CANADA No additional information available
15.2. International regulations CANADA
CANADA
EU-Regulations No additional information available National regulations No additional information available
15.3. US State regulations
No additional information available
SECTION 16: Other information

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Revision date

: 03/10/2022

SDS US (GHS HazCom 2012)

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