

Resistant Starch Assay Kit

Kit SIS (Safety Information Sheet)

Issue date (US):1/16/2018 Revision date (US):4/11/2022 Supersedes (US):1/16/2018 Version (US):1.1

ECTION 1: Kit ider	ntification			
.1. Kit identifier				
Product name	: Res	istant Starch Assa	ay Kit	
Product code	: K-R	STAR	-	
1.2. Details of the s	upplier of the Kit safety info	rmation sheet		
•	w.megazyme.com I information consists of several independe i in accordance with good labo	,	•	nal protective equipment should be used
Name	General description	Quantity	Unit	GHS US classification
Resistant Starch Assay Kit (Bottle 1)	Reagent	1	pcs (pieces)	Resp. Sens. 1, H334
Resistant Starch Assay Kit (Bottle 2)	Reagent	1	pcs (pieces)	Resp. Sens. 1, H334
Resistant Starch Assay Kit (Bottle 3)	Reagent	1	pcs (pieces)	Skin Irrit. 2, H315 Eye Dam. 1, H318
Resistant Starch Assay Kit (Bottle 4)	Reagent	1	pcs (pieces)	Skin Irrit. 2, H315 Eye Irrit. 2, H319

Resistant Starch 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
Resistant Starch Assay Kit (Bottle 5)	Reagent	1	pcs (pieces)	Not classified
Resistant Starch Assay Kit (Bottle 6)	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

SECTION 0. Thist and 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

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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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Megazyme	Issue date: 01/16/2018 Revision date: 03/15/2022 Supersedes: 01/16/2018 Version: 1.0
SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: Resistant Starch Assay Kit (Bottle 6)
Product code	: K-RSTAR (Bottle 6)
1.2. Recommended use and re	estrictions 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.megazym	
1.4. Emergency telephone nur	nber
Emergency number	: +353 12861220 [9 am to 5 pm GMT - Monday to Friday]
SECTION 2: Hazard(s) identi	fication
2.1. Classification of the subs	tance or mixture
GHS US classification	
Not classified	
2.2. GHS Label elements, inclu	uding precautionary statements
GHS US labeling	
No labeling applicable	
2.3. Other hazards which do n	ot result in classification
No additional information available	
2.4. Unknown acute toxicity (C	SHS US)
Not applicable	
SECTION 3: Composition/Int	formation on ingredients
3.1. Substances	
Not applicable	
3.2. Mixtures	
This mixture does not contain any sub	ostances to be mentioned according to the criteria of section 3.2 of HazCom 2012
SECTION 4: First-aid measu	res
4.1. Description of first aid me	
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/doctor/physician if you feel unwell.
4.2. Most important symptoms	s and effects (acute and delayed)
4.3. Immediate medical attenti	on and special treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting me	asures

Suitable (and unsuitable) extinguishing media 5.1.

Suitable extinguishing media

: Water spray. Dry powder. Foam.

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	,					
	ds arising from the ch	emical				
lazardous decompositior re	n products in case of	: Toxic	fumes may be released.			
.3. Special protec	tive equipment and p	recaution	s for fire-fighters			
rotection during firefighti	ng		t attempt to take action withou atus. Complete protective clot		protective equipmer	t. Self-contained breathing
ECTION 6: Accide						
.1. Personal preca	autions, protective eq	uipment a	and emergency procedures			
.1.1. For non-emergement procedures	jency personnel	: Ventil	ate spillage area.			
5.1.2. For emergency Protective equipment	/ responders		t attempt to take action withou o section 8: "Exposure contro			t. For further information
5.2. Environmental Avoid release to the envir	•					
.3. Methods and n	naterial for containme	nt and cl	eaning up			
lethods for cleaning up			anically recover the product.			
ther information			se of materials or solid residu	es at an au	thorized site.	
4. Reference to o	ther sections					
or further information ref	er to section 13.					
ECTION 7: Handli	ng and storage					
1. Precautions fo	r safe handling					
recautions for safe hand	ling		e good ventilation of the work			
ygiene measures		: Do no produ	it eat, drink or smoke when us ct.	ing this pro	oduct. Always wash	hands after handling the
.2. Conditions for	safe storage, includi	ng any ing	compatibilities			
torage conditions	Ŭ /		in a well-ventilated place. Kee	ep cool.		
	ura controle/nore	onal pr	otaction			
SECTION 8: Exposure controls/personal protection 8.1. Control parameters						
	6(6)5					
Resistant Starch Assa	y Kit (Bottle 6)					
No additional information	n available					
.2. Appropriate er	igineering controls					
ppropriate engineering c			e good ventilation of the work	station.		
nvironmental exposure o	controls	: Avoid	release to the environment.			
3. Individual prot	ection measures/Pers	onal prot	tective equipment			
Hand protection:						
Protective gloves						_
Туре	Material		Permeation Thickness		ess (mm)	Penetration
Disposable glovesNitrile rubber (NBR)3 (> 60 minutes)2 (< 1.5)						
Eye protection:						
Safety glasses						
Туре		Use	Use		Characteristics	
Safety glasses		Dust	Dust		With side shields	
Skin and body protect	ion:					
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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	Dust protection

Personal protective equipment symbol(s):



9.1. Information on basic physical and	I chemical properties	S
Physical state	: Solid	
Color	: No data availa	ıble
Odor	: None	
Odor threshold	: No data availa	ible
рН	: No data availa	ible
Melting point	: No data availa	ıble
Freezing point	: Not applicable	;
Boiling point	: No data availa	ible
Flash point	: Not applicable	÷
Relative evaporation rate (butyl acetate=1)	: No data availa	ible
Flammability (solid, gas)	: Non flammable	e.
Vapor pressure	: No data availa	ible
Relative vapor density at 20 °C	: No data availa	ible
Relative density	: No data availa	ıble
Solubility	: Soluble in wate	er.
Partition coefficient n-octanol/water (Log Pow)	: No data availa	ible
Auto-ignition temperature	: Not applicable	;
Decomposition temperature	: No data availa	ıble
Viscosity, kinematic	: No data availa	ıble
Viscosity, dynamic	: No data availa	ıble
Explosion limits	: Not applicable	;
Explosive properties	: No data availa	ıble
Oxidizing properties	: No data availa	able

No additional information available

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

10.3. Possibility of hazardous reactions

No 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 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	: 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				

SECT	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 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

COTION

Transportation of Dangerous Goods

Not applicable

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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 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
energian to Federal Devictor (Mel. 77, No. 59 (Merden March 90, 2049 / Dules and Devulations

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

Revision date

: 03/15/2022

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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Megazyme	Issue date: 01/16/2018 Revision date: 03/15/2022 Supersedes: 01/16/2018 Version: 1.0			
SECTION 1: Identification				
1.1. Identification				
Product form	: Mixture			
Product name	: Resistant Starch Assay Kit (Bottle 5)			
Product code	: K-RSTAR (Bottle 5)			
1.2. Recommended use and	restrictions 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 1286126 <u>cs@megazyme.com</u> - <u>www.megazy</u>				
1.4. Emergency telephone no	umber			
Emergency number	: +353 12861220 [9 am to 5 pm GMT - Monday to Friday]			
SECTION 2: Hazard(s) iden	tification			
2.1. Classification of the sub	stance or mixture			
GHS US classification				
Not classified				
2.2 CHS Label elemente inc	luding propositioners at tempera			
2.2. GHS Label elements, inc GHS US labeling	luding precautionary statements			
No labeling applicable				
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 ingredients			
3.1. Substances				
Not applicable				
3.2. Mixtures				
-	ubstances to be mentioned according to the criteria of section 3.2 of HazCom 2012			
SECTION 4: First-aid meas				
4.1. Description of first aid m				
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.			
First-aid measures after skin contac				
First-aid measures after eye contact				
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.			
4.2. Most important symptom	ns and effects (acute and delayed)			
4.3. Immediate medical atten	tion and special treatment, if necessary			

Treat symptomatically.

SECTION 5: Fire-fighting measures				
5.1.	Suitable (and unsuitable) extinguish	ing media		
Suitable extinguishing media		: Water spray. Dry powder. Foam. Carbon dioxide.		

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5.2. Specific hazard	s arising from the cher	nical				
Hazardous decomposition ire	products in case of :	Toxic	fumes may be released.			
.3. Special protect	ive equipment and pred					
rotection during firefightin	ig :		t attempt to take action without atus. Complete protective cloth		protective equipment	. Self-contained breathing
ECTION 6: Accide						
.1. Personal preca	utions, protective equip	pment a	and emergency procedures			
5.1.1. For non-emerge						
mergency procedures	:	Ventila	ate spillage area.			
5.1.2. For emergency	responders					
Protective equipment	:		t attempt to take action without o section 8: "Exposure controls			. For further information
.2. Environmental	precautions					
void release to the enviro	nment.					
.3. Methods and m	aterial for containment	and cl	eaning up			
lethods for cleaning up			up liquid spill into absorbent ma			
Other information	:	Dispo	se of materials or solid residue	s at an au	thorized site.	
.4. Reference to ot						
or further information refe	er to section 13.					
ECTION 7: Handlin	ig and storage					
.1. Precautions for	safe handling					
recautions for safe handli	-		e good ventilation of the work s			
lygiene measures	:	Do no produ	t eat, drink or smoke when usir ct.	ng this pro	oduct. Always wash h	nands after handling the
.2. Conditions for	safe storage, including	any ind	compatibilities			
Storage conditions	:	Store	in a well-ventilated place. Keep	o cool.		
SECTION 8: Exposu	re controls/persor	nal pro	otection			
.1. Control parame						
Resistant Starch Assay	Kit (Bottle 5)					
No additional information	available					
	gineering controls					
ppropriate engineering co			e good ventilation of the work s	station.		
nvironmental exposure co	ontrols :	Avoid	release to the environment.			
.3. Individual prote	ction measures/Persor	nal prot	ective equipment			
Hand protection:						
Protective gloves						
Туре	Material		Permeation	Thickne	ess (mm)	Penetration
Disposable glovesNitrile rubber (NBR)3 (> 60 minutes)2 (< 1.5)						
Eye protection:						
Safety glasses]
Туре	ι	Jse	e Characteristics			
Safety glasses	C	Droplet	roplet With side shields			
Skin and body protection	on:					
			K-F (10)			0/25

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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	

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical p	properties
9.1. Information on basic physical and c	hemical 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

No additional information available

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

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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

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 informat	ion
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
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 additional information available				
12.5.	Other adverse effects			
No additional information available				

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

Not applicable

Transportation of Dangerous Goods

Not applicable

Safety Data Sheet

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

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 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
energian to Federal Devictor (Mel. 77, No. 59 (Merden March 90, 2049 / Dules and Devulations

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Revision date

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SDS US (GHS HazCom 2012)

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Version: 1.0 **SECTION 1: Identification** Identification 1.1. Product form : Mixture Product name : Resistant Starch Assay Kit (Bottle 4) Product code : K-RSTAR (Bottle 4) Recommended use and restrictions on use 1.2. 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 mixture

GHS US classification

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)

Signal word (GHS US) : Danger Hazard statements (GHS US) : Causes skin irritation Causes serious eye irritation May cause an allergy or asthma symptoms or breathing difficulties if inhaled Avoid breathing dust. Precautionary statements (GHS US) Wash hands thoroughly after handling. Wear eye protection, protective clothing, protective gloves [In case of inadequate ventilation] wear respiratory protection. If on skin: Wash with plenty of water. If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see supplemental first aid instruction on this label). If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. If experiencing respiratory symptoms: Call a doctor, a POISON CENTER. Take off contaminated clothing and wash it before reuse. Dispose of contents/container to

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- aminoantipyrene / 4- aminoantipyrine / 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 effe	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 sp	pecial treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguisl	hing media
Suitable extinguishing media	: Water spray. Dry powder. Foam.
5.2. Specific hazards arising from the cl	hemical
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 precautions, protective equipment and emergency procedures							
6.1.1. For non-emerger	icy personnel						
Emergency procedures	mergency procedures : Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapors/spray.						
6.1.2. For emergency r Protective equipment	: Do no	t attempt to take action withou o section 8: "Exposure controls		ent. For further information			
6.2. Environmental p	recautions						
Avoid release to the environ	ment.						
6.3. Methods and ma	terial for containment and cl	eaning up					
Methods for cleaning up Other information		anically recover the product. se of materials or solid residue	s at an authorized site.				
6.4. Reference to oth	er sections						
For further information refer	to section 13.						
SECTION 7: Handling	and storage						
7.1. Precautions for s							
Precautions for safe handlin		e good ventilation of the work s ning dust/fume/gas/mist/vapors		ective equipment. Avoid			
Hygiene measures	: Do no produ	t eat, drink or smoke when usi ct.	ng this product. Always was	sh hands after handling the			
7.2. Conditions for sa	fe storage, including any incl	compatibilities					
Storage conditions	: Store	in a well-ventilated place. Keep	o cool.				
SECTION 8: Exposure controls/personal protection 3.1. Control parameters							
o.r. Control paramete	15						
Resistant Starch Assay I	(it (Bottle 4)						
No additional information a	• •						
4-aminoantipyrine (83-07	-8)						
No additional information a	vailable						
HORSERADISH PEROXI	DASE (9003-99-0)						
No additional information a	vailable						
GLUCOSE OXIDASE (90)1-37-0)						
No additional information a	vailable						
8.2. Appropriate engineering cor Environmental exposure cor	trols : Ensur htrols : Avoid	e good ventilation of the work a release to the environment.	station.				
8.3. Individual protect	tion measures/Personal prot	ective equipment					
Hand protection:							
Protective gloves							
Туре	Material	Permeation	Thickness (mm)	Penetration			
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)		2 (< 1.5)			
Eve protection:							
Eye protection:	I						

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 c	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	: No data available
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 dan	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 add	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	n and a second
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 considerat	tions
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	on
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 informat	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	
SECTION 16: Other information	

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Revision date

: 03/15/2022

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 :	Resistant Starch Assay K	it (Bottle 3)						
Product code :	: K-RSTAR (Bottle 3)							
2. Recommended use and restrictions on use								
	Use as laboratory reagent	t						
1.3. Supplier								
Megazyme Bray Business Park Bray, A98 YV29 - 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	o Friday]					
SECTION 2: Hazard(s) identification								
2.1. Classification of the substance or mixed	ture							
GHS US classification								
Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 1	Causes skin irritatio Causes serious eye							
2.2. GHS Label elements, including precau	tionary statements							
GHS US labeling								
Hazard pictograms (GHS US) :								
Signal word (GHS US) :	Danger							
Hazard statements (GHS US) :	: Causes skin irritation Causes serious eye damage							
2.3. Other hazards which do not result in c	lassification							
No additional information available								
2.4. Unknown acute toxicity (GHS US)								
Not applicable								
SECTION 3: Composition/Information	on ingredients							
3.1. Substances								
Not applicable								
3.2. Mixtures								
Name	Common Name (Synonyms)	Product identifier	%	GHS US classification				
sodium bydroxido, caustic soda		(CAS No.) 1310 73 2	1 5	Skin Corr 1A H314				

(CAS-No.) 1310-73-2

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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

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	shing media
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 fire	: Toxic fumes may be released.
5.3. Special protective equipment and j	precautions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release mea	asures
6.1. Personal precautions, protective e	quinment and emergency procedures
	quipment and emergency procedures
and the product of the second second	
6.1.1. For non-emergency personnel	: Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.
6.1.1. For non-emergency personnel Emergency procedures	: Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with
6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders	: Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with
6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment	 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
6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions	 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
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.	 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".
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	 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".
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	 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".
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 Dther information	 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".
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	 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".
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 Dther information 6.4. Reference to other sections For further information refer to section 13.	 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".
 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. 	 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".
 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. SECTION 7: Handling and storage 	 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".
 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. SECTION 7: Handling and storage 	 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

Resistant Starch 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

Device	Filter type	Condition
Dust mask	Туре Р1	

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and	Information on basic physical and chemical properties		
Physical state	: Liquid		
Color	: Colorless		
Odor	: None		
Odor threshold	: No data available		
рН	: No data available		
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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 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 co	nditions of use.			
10.4. Conditions to avoid				
None under recommended storage and handling	g conditions (see section 7).			
10.5. Incompatible materials				
No additional information available				
10.6. Hazardous decomposition products				
Under normal conditions of storage and use, haz	zardous 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				
	. Not classified			
Germ cell mutagenicity	: Not classified			
Germ cell mutagenicity	: Not classified			

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4-HYDROXYBENZOIC ACID (99-96-7)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Serious damage to eyes.
SECTION 12: Ecological informa	tion
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 addit	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 addit	tional information available		

SECTION 13: Disposal conside	erations
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport inform	nation
Department of Transportation (DOT)	
In accordance with DOT	
Notappliable	

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 EU-Regulations No additional information available

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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

: 03/15/2022

SDS US (GHS HazCom 2012)

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Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 01/16/2018 Revision date: 03/15/2022 Supersedes: 01/16/2018

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: Resistant Starch Assay Kit (Bottle 2)
Product code	: K-RSTAR (Bottle 2)
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 <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: Hazard(s) identification	
2.1. Classification of the substance or n	nixture
GHS US classification	
Respiratory sensitization, Category 1	May cause an allergy or asthma symptoms or breathing difficulties if inhaled
2.2. GHS Label elements, including pred	cautionary statements
GHS US labeling	
Hazard pictograms (GHS US)	
Signal word (GHS US)	: Danger
Signal word (GHS US) Hazard statements (GHS US)	 : Danger : May cause an allergy or asthma symptoms or breathing difficulties if inhaled
	0
Hazard statements (GHS US)	 May cause an allergy or asthma symptoms or breathing difficulties if inhaled Avoid breathing dust. [In case of inadequate ventilation] wear respiratory protection. If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a doctor, a POISON CENTER. Dispose of contents/container to
Hazard statements (GHS US) Precautionary statements (GHS US)	 May cause an allergy or asthma symptoms or breathing difficulties if inhaled Avoid breathing dust. [In case of inadequate ventilation] wear respiratory protection. If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a doctor, a POISON CENTER. Dispose of contents/container to
Hazard statements (GHS US) Precautionary statements (GHS US) 2.3. Other hazards which do not result i	 May cause an allergy or asthma symptoms or breathing difficulties if inhaled Avoid breathing dust. [In case of inadequate ventilation] wear respiratory protection. If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a doctor, a POISON CENTER. Dispose of contents/container to
Hazard statements (GHS US) Precautionary statements (GHS US) 2.3. Other hazards which do not result in No additional information available	 May cause an allergy or asthma symptoms or breathing difficulties if inhaled Avoid breathing dust. [In case of inadequate ventilation] wear respiratory protection. If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a doctor, a POISON CENTER. Dispose of contents/container to
 Hazard statements (GHS US) Precautionary statements (GHS US) 2.3. Other hazards which do not result in No additional information available 2.4. Unknown acute toxicity (GHS US) Not applicable 	 May cause an allergy or asthma symptoms or breathing difficulties if inhaled Avoid breathing dust. [In case of inadequate ventilation] wear respiratory protection. If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a doctor, a POISON CENTER. Dispose of contents/container to
Hazard statements (GHS US) Precautionary statements (GHS US) 2.3. Other hazards which do not result in No additional information available 2.4. Unknown acute toxicity (GHS US) Not applicable SECTION 3: Composition/Information	 May cause an allergy or asthma symptoms or breathing difficulties if inhaled Avoid breathing dust. [In case of inadequate ventilation] wear respiratory protection. If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a doctor, a POISON CENTER. Dispose of contents/container to
Hazard statements (GHS US) Precautionary statements (GHS US) 2.3. Other hazards which do not result in No additional information available 2.4. Unknown acute toxicity (GHS US) Not applicable SECTION 3: Composition/Information 3.1. Substances	 May cause an allergy or asthma symptoms or breathing difficulties if inhaled Avoid breathing dust. [In case of inadequate ventilation] wear respiratory protection. If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a doctor, a POISON CENTER. Dispose of contents/container to
Hazard statements (GHS US) Precautionary statements (GHS US) 2.3. Other hazards which do not result in No additional information available 2.4. Unknown acute toxicity (GHS US) Not applicable SECTION 3: Composition/Information	 May cause an allergy or asthma symptoms or breathing difficulties if inhaled Avoid breathing dust. [In case of inadequate ventilation] wear respiratory protection. If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a doctor, a POISON CENTER. Dispose of contents/container to

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Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
alpha-amylase	1,4alpha-D-glucan	(CAS-No.) 9000-90-2	100	Resp. Sens. 1, H334
	glucanohydrolase / 1,4-			,, ,
	alpha-D-glucanase / 1,4-			
	alpha-glucanase / alpha-			
	amylase from hog			
	pancreas / alpha-amylase			
	from human saliva / alpha-			
	amylase, DFP treated			
	from hog pancreas /			
	alpha-amylase, PMSF			
	treated from hog pancreas			
	/ amano AD 1 / amylase			
	AD / amylase THC 250 /			
	amylase, alpha- / amylogal			
	CS / amylolisin 5 /			
	amylopsin / amylosubtilin /			
	aquazym 120L /			
	aguazyme 240 / bactosol			
	TK / BAM 240 / ban / ban			
	(enzyme) / BAN 120L /			
	BAN 240 / ban 480L /			
	beisol T 2090 / biobake			
	40000 / bioferm / bioferm			
	P / bioprep TBS / biotex			
	GT / biozyme A / biozyme			
	F / brewers Amylique TS /			
	buclamase / canalpha			
	1000P / canalpha 600L /			
	canalpha 60P / cenazyme			
	SA 7 / clarase / denazyme			
	SA 7 / desize 160 / E.C.			
	3.2.1.1 / EC 3.2 1.1 /			
	ekikakoso 6T /			
	EMCEmaltex 1000 /			
	endoamylase / FD Super /			
	fortizyme / fungamyl /			
	fungamyl 2500BG /			
	fungamyl 300 L / fungamyl			
	800L / G 995 / G6-			
	Amylase / gamalpha HT			
	120L / gemsize 4A / G-			
	zyme G 995 / hitempase /			
	kleistase KD / kleistase L			
	1 / kleistase T 5 / kokugen			
	K / maltogenase 4000L /			
	maxamyl / maxamyl HT			
	3000 / maxamyl WL			
	15,000 / maxilase / pivozin			
	/ plurafact oxam / ptyalin /			
	speedase HS / speedase			
	M / speedase XP 404 /			
	spitase CP 1 / sumizyme L			
	/ taka-amylase / taka-			
	amylase A / taka-diastase			
	/ takalite / takalite L 340 /			
	takatherm / tanase /			
	termamyl / termamyl 120L			
	/ termamyl 60L / termamyl			
	60T / thermolase / WC 8			

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 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/doctor/physician if you feel unwell.
4.2. Most important symptoms and effe	ects (acute and delayed)
4.3. Immediate medical attention and s	pecial treatment, if necessary

Treat symptomatically.

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SECTION 5: Fire-fight	ting measures			
5.1. Suitable (and uns	suitable) extinguishing media	a		
Suitable extinguishing media	a : Water	spray. Dry powder. Foam.		
5.2. Specific hazards	arising from the chemical			
Hazardous decomposition pr fire	roducts in case of : Toxic	fumes may be released.		
5.3. Special protective	e equipment and precaution	s for fire-fighters		
Protection during firefighting		t attempt to take action without atus. Complete protective cloth	suitable protective equipment.	Self-contained breathing
SECTION 6: Accident	tal release measures			
6.1. Personal precaut	tions, protective equipment a	and emergency procedures		
6.1.1. For non-emergen	ncy personnel			
Emergency procedures	: Ventila	ate spillage area.		
6.1.2. For emergency re Protective equipment	: Do no	t attempt to take action without o section 8: "Exposure controls	suitable protective equipment. /personal protection".	For further information
6.2. Environmental pr	recautions			
Avoid release to the environi	ment.			
6.3. Methods and mat	terial for containment and cl	eaning up		
Methods for cleaning up		anically recover the product.		
Other information	: Dispos	se of materials or solid residue	s at an authorized site.	
6.4. Reference to othe	er sections			
For further information refer	to section 13.			
SECTION 7: Handling	and storage			
SECTION 7: Handling 7.1. Precautions for s				
	afe handling	e good ventilation of the work s	station. Wear personal protectiv	ve equipment.
7.1. Precautions for s	g : Ensur	t eat, drink or smoke when usi	station. Wear personal protectiving this product. Always wash h	
 7.1. Precautions for s Precautions for safe handling Hygiene measures 7.2. Conditions for sa 	g : Ensur g : Ensur : Do no produc afe storage, including any inc	t eat, drink or smoke when usin ct. compatibilities	ng this product. Always wash h	
7.1. Precautions for s Precautions for safe handling Hygiene measures	g : Ensur g : Ensur : Do no produc afe storage, including any inc	t eat, drink or smoke when usinct.	ng this product. Always wash h	
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 7.1. Precautions for s Precautions for safe handling Hygiene measures 7.2. Conditions for sa Storage conditions SECTION 8: Exposure 	afe handling g : Ensur : Do no product afe storage, including any inc : Store e controls/personal pro	t eat, drink or smoke when usin ct. compatibilities in a well-ventilated place. Keep	ng this product. Always wash h	
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 7.1. Precautions for s Precautions for safe handling Hygiene measures 7.2. Conditions for sa Storage conditions SECTION 8: Exposure 	g : Ensur : Do no product afe storage, including any ind : Store e controls/personal pro- ers Kit (Bottle 2)	t eat, drink or smoke when usin ct. compatibilities in a well-ventilated place. Keep	ng this product. Always wash h	
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Eye protection:

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Safety glasses		
Туре	Use	Characteristics
Safety glasses	Dust	With side shields, clear
Older and hade meets attant		

Skin and body protection:

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 c	hemical properties		
Physical state	: Solid		
Color	: No data available on colour		
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	: No data available		
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.

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10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions	
No dangerous reactions known under normal cond	litions of use.
10.4. Conditions to avoid	
None under recommended storage and handling of	conditions (see section 7).
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition products	rdous decomposition products should not be produced.
-	
SECTION 11: Toxicological informatic	on service and s
11.1. Information on toxicological effects	
Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
alpha-amylase (9000-90-2)	
LD50 oral rat	> 7500 mg/kg (Rat)
	: Not classified
	: 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
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.
alpha-amylase (9000-90-2)	
LC50 fish 1	> 100 mg/l (LC50)
EC50 Daphnia 1	> 100 mg/l (EC50)
Threshold limit algae 1	> 100 mg/l (EC50)
12.2. Persistence and degradability	

alpha-amylase (9000-90-2)	
Persistence and degradability	Readily biodegradable in water.
12.3. Bioaccumulative potential	
alpha-amylase (9000-90-2)	
Bioaccumulative potential	Bioaccumulation unlikely.

12.4. Mobility in soil

No additional information available

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12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

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 in	formation
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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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 Identification 1.1. Product form : Mixture Product name : Resistant Starch Assay Kit (Bottle 1) Product code : K-RSTAR (Bottle 1) Recommended use and restrictions on use 1.2. 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 Classification of the substance or mixture 2.1. **GHS US classification** Respiratory sensitization, Category 1 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) Signal word (GHS US) : Danger May cause an allergy or asthma symptoms or breathing difficulties if inhaled Hazard statements (GHS US) Precautionary statements (GHS US) : Avoid breathing mist, spray, vapors. [In case of inadequate ventilation] wear respiratory protection. If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a doctor, a POISON CENTER. Dispose of contents/container to Other hazards which do not result in classification 2.3. No additional information available 2.4. Unknown acute toxicity (GHS US) Not applicable **SECTION 3: Composition/Information on ingredients Substances** 3.1. Not applicable 3.2. **Mixtures**

Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
AMYLOGLUCOSIDASE		(CAS-No.) 9032-08-0	10 – 20	Resp. Sens. 1, H334

Version: 1.0

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Full text of hazard classes and H-statements : see section 16 SECTION 4: First-aid measures **Description of first aid measures** 4.1. 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/doctor/physician if you feel unwell. 4.2. Most important symptoms and effects (acute and delayed) 4.3. Immediate medical attention and special treatment, if necessary Treat symptomatically. **SECTION 5: Fire-fighting measures** Suitable (and unsuitable) extinguishing media 5.1. Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide. 5.2. Specific hazards arising from the chemical Hazardous decomposition products in case of : Toxic fumes may be released. fire 5.3. Special protective equipment and precautions for fire-fighters Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. SECTION 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures 6.1.1. For non-emergency personnel : Ventilate spillage area. Emergency procedures For emergency responders 6.1.2. Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". 62 **Environmental precautions** Avoid release to the environment. Methods and material for containment and cleaning up 6.3. Methods for cleaning up : Take up liquid spill into absorbent material. : Dispose of materials or solid residues at an authorized site. 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 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. 72 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 Resistant Starch Assay Kit (Bottle 1)**

No additional information available

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	AMYLOGLUCOSIDASE (9032-08-0)
1	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, clear

Skin and body protection:

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 Liquid particles

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and ch	emical properties
Physical state	: Liquid
Color	: No data available on colour
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

SECTION 10: Stability and react	tivity
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 react	ions
No dangerous reactions known under norr	nal conditions of use.
10.4. Conditions to avoid	
None under recommended storage and ha	andling conditions (see section 7).
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition pro	oducts
I have a second second Research fraction of the second s	
Under normal conditions of storage and us	se, hazardous decomposition products should not be produced.
SECTION 11: Toxicological info	
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SECTION 11: Toxicological info	rmation
SECTION 11: Toxicological info 11.1. Information on toxicological e	rmation ffects
SECTION 11: Toxicological info 11.1. Information on toxicological e Acute toxicity (oral)	rmation ffects : Not classified
SECTION 11: Toxicological info 11.1. Information on toxicological e Acute toxicity (oral) Acute toxicity (dermal)	rmation ffects : Not classified : Not classified
SECTION 11: Toxicological info 11.1. Information on toxicological e Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	rmation ffects : Not classified : Not classified : Not classified
SECTION 11: Toxicological info 11.1. Information on toxicological e Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation) Skin corrosion/irritation	rmation ffects : Not classified : Not classified : Not classified : Not classified
SECTION 11: Toxicological info 11.1. Information on toxicological e Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation) Skin corrosion/irritation Serious eye damage/irritation	rmation ffects : Not classified : Not classified : Not classified : Not classified : Not classified
SECTION 11: Toxicological info 11.1. Information on toxicological e Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization	ffects Not classified Not classified Not classified Not classified Mot classified Mot classified Mot classified Mot classified May cause an allergy or asthma symptoms or breathing difficulties if inhaled.
SECTION 11: Toxicological info 11.1. Information on toxicological e Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity	rmation ffects Not classified Not classified Not classified Not classified Not classified May cause an allergy or asthma symptoms or breathing difficulties if inhaled. Not classified Not classified
SECTION 11: Toxicological info 11.1. Information on toxicological e Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	ffects Not classified 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 addit	ional information available	

Aspiration hazard

Viscosity, kinematic

: Not classified

: No data available

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12.3.	Bioaccumulative potential	

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal consid	orations
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport inform	nation
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 info	rmation
15.1. US Federal regulations	
No additional information available	
15.2. International regulations	
CANADA No additional information available EU-Regulations No additional information available	

No additional information available **15.3. US State regulations**

National regulations

No additional information available

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