

### Raffinose/Sucrose/D-Glucose Assay Kit

Kit SIS (Safety Information Sheet)

Issue date (US):1/5/2018 Revision date (US):4/12/2022 Supersedes (US):1/5/2018 Version (US):1.1

.1. Kit identifier				
.1. Kit identifier				
roduct name	· Raf	finose/Sucrose/D-0	Glucose Assav Kit	
roduct code	: K-R	AFGL		
.2. Details of the sup	plier of the Kit safety info	rmation sheet		
Megazyme Bray Business Park A98 YV29 Bray - Ireland F +353 12861220 - F +353 1 s@megazyme.com - www.i SECTION 2: General i	megazyme.com			
This product is a Kit which co	onsists of several independe n accordance with good labo	,		l protective equipment should be used
<sup>-</sup> his product is a Kit which co <sup>-</sup> his Kit should be handled ir	onsists of several independe n accordance with good labo	,		I protective equipment should be used
<sup>-</sup> his product is a Kit which co <sup>-</sup> his Kit should be handled ir	onsists of several independe n accordance with good labo	,		I protective equipment should be used GHS US classification
This product is a Kit which of This Kit should be handled ir SECTION 3: Kit conte	onsists of several independe n accordance with good labo nts	pratory practices ar	nd appropriate persona	· · · ·
This product is a Kit which co This Kit should be handled ir SECTION 3: Kit conte Name Raffinose/Sucrose/D-	onsists of several independe n accordance with good labo nts General description	pratory practices ar Quantity	d appropriate persona	GHS US classification Skin Irrit. 2, H315
This product is a Kit which co This Kit should be handled in SECTION 3: Kit conte Name Raffinose/Sucrose/D- Glucose Assay Kit (Bottle 3) Raffinose/Sucrose/D-	onsists of several independent accordance with good labo ents General description Reagent	pratory practices ar Quantity	nd appropriate persona	GHS US classification Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Irrit. 2, H315 Eye Irrit. 2, H319

Raffinose/Sucrose/D- Glucose Assay Kit (Bottle 6)	Reagent	1	pcs (pieces)	Not classified
Raffinose/Sucrose/D- Glucose Assay Kit (Bottle 1)	Buffer	1	pcs (pieces)	Not classified
Raffinose/Sucrose/D- Glucose Assay Kit (Bottle 2)	Reagent	1	pcs (pieces)	Not classified
Raffinose/Sucrose/D- Glucose Assay Kit (Bottle 5)	Reagent	1	pcs (pieces)	Not classified

#### SECTION 4: General advice

No data available

SECTION 5: Safe handling advic	e
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

## Raffinose/Sucrose/D-Glucose 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





Version: 1.0

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 01/05/2018 Revision date: 03/15/2022 Supersedes: 01/05/2018

	-				
SECTIO	N 1: Identification				
1.1.	Identification				
Product fo	rm	: Mixture			
Product na	ame	: Raffinose/Suc	crose/D-Glucose Assay Kit (Bo	ttle 5)	
Product co	ode	: K-RAFGL (Bo	ttle 5)		
1.2.	Recommended use and re	estrictions on use			
Use of the	substance/mixture	: Use as labora	tory reagent		
1.3.	Supplier				
T +353 12					
1.4.	Emergency telephone nui	nber			
Emergenc	y number	: +353 128612	20 [9 am to 5 pm GMT - Monda	ay to Friday]	
SECTIO	N 2: Hazard(s) ident	ification			
2.1.	Classification of the subs	tance or mixture			
GHS US o	assification				
Not classif	fied				
	,	uding precautionary staten	nents		
GHS US I No labelin	g applicable	— Е	<b>▶</b> 莆粒		
2.3.	Other hazards which do n	ot result in classification			
No additio	nal information available				
	Unknown acute toxicity (	GHS US)			
Not applic					
SECTIO	N 3: Composition/In	formation on ingredie	nts		
3.1.	Substances				
Not applic	able				
3.2.	Mixtures				
This mixtu	re does not contain any sul	ostances to be mentioned ac	cording to the criteria of sectior	1 3.2 of HazCom 2012	
SECTIO	N 4: First-aid measu	res	-		
	Description of first aid me				
	neasures after inhalation		on to fresh air and keep comfo	rtable for breathing.	
	neasures after skin contact		h plenty of water.		
	neasures after eye contact		ith water as a precaution.		
	neasures after ingestion	•	center/doctor/physician if you f	eel unwell.	
	-	s and effects (acute and de			
		on and special treatment, i	f necessary		
Treat sym	ptomatically.				
SECTIO	N 5: Fire-fighting me	asures			
5.1.	Suitable (and unsuitable)	extinguishing media			

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

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lazardous decomposition	s arising from the ch					
		emical				
			fumes may be released.			
ire						
	ive equipment and pr					
Protection during firefightin	ng		t attempt to take action without atus. Complete protective clothi		protective equipm	ent. Self-contained breathing
SECTION 6: Accide						
6.1. Personal preca	utions, protective equ	lipment a	and emergency procedures			
5.1.1. For non-emerge	ency personnel					
Emergency procedures		: Ventila	ate spillage area.			
5.1.2. For emergency	responders					
Protective equipment			t attempt to take action without o section 8: "Exposure controls/			ent. For further information
6.2. Environmental	precautions					
Avoid release to the enviro	onment.					
6.3. Methods and m	aterial for containme	nt and cl	eaning up			
Methods for cleaning up			up liquid spill into absorbent ma			
Other information		: Dispo	se of materials or solid residues	at an au	thorized site.	
6.4. Reference to ot						
For further information refe						
SECTION 7: Handlin	ng and storage					
7.1. Precautions for		_		L		
Precautions for safe handli	ing		e good ventilation of the work st t eat, drink or smoke when usin			
lygiene measures		produ		g uns pro	uuci. Always was	sh hanus aller hanuling the
7.2. Conditions for s	safe storage, includir	g any ind	compatibilities			
Storage conditions		: Store	in a well-ventilated place. Keep			
standy contaitionio			in a weil-ventilated place. Reep	cool.		
-				cool.		
SECTION 8: Exposu	-			cool.		
-	-			cool.		
SECTION 8: Exposu 3.1. Control parame	ters	onal pro		cool.		
SECTION 8: Exposu 8.1. Control parame Raffinose/Sucrose/D-G	eters Iucose Assay Kit (Bo	onal pro		cool.		
SECTION 8: Exposu 3.1. Control parame	eters Iucose Assay Kit (Bo	onal pro		cool.		
SECTION 8: Exposu 8.1. Control parame Raffinose/Sucrose/D-Gl No additional information	available	onal pro		cool.		
SECTION 8: Exposu 8.1. Control parame Raffinose/Sucrose/D-Gl No additional information	available gineering controls	onal pro				
SECTION 8: Exposu 8.1. Control parame Raffinose/Sucrose/D-Gi No additional information 8.2. Appropriate eng	lucose Assay Kit (Bor available gineering controls ontrols	ttle 5)	otection			
SECTION 8: Exposu         8.1.       Control parame         Raffinose/Sucrose/D-Gl         No additional information         8.2.       Appropriate engineering col         Appropriate engineering col         Environmental exposure col	available gineering controls ontrols	itte 5)	e good ventilation of the work st release to the environment.			
SECTION 8: Exposu 3.1. Control parame Raffinose/Sucrose/D-Gl No additional information 3.2. Appropriate engineering co Appropriate engineering co Environmental exposure co 3.3. Individual prote	lucose Assay Kit (Bor available gineering controls ontrols	itte 5)	e good ventilation of the work st release to the environment.			
SECTION 8: Exposu 3.1. Control parame Raffinose/Sucrose/D-Gl No additional information 3.2. Appropriate engineering co Environmental exposure co 3.3. Individual protection:	available gineering controls ontrols	itte 5)	e good ventilation of the work st release to the environment.			
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SECTION 8: Exposu 3.1. Control parame Raffinose/Sucrose/D-Gl No additional information 3.2. Appropriate engineering co Environmental exposure co 3.3. Individual protection:	available gineering controls ontrols	itte 5)	e good ventilation of the work st release to the environment.	tation.	ss (mm)	Penetration
SECTION 8: Exposu 3.1. Control parame Raffinose/Sucrose/D-G No additional information 3.2. Appropriate engineering co Environmental exposure co 3.3. Individual prote Hand protection: Protective gloves	available gineering controls ontrols ection measures/Pers	ittle 5) : Ensur : Avoid	e good ventilation of the work st release to the environment. tective equipment	tation.	ss (mm)	Penetration 2 (< 1.5)
SECTION 8: Exposu 8.1. Control parame Raffinose/Sucrose/D-Gl No additional information 8.2. Appropriate engineering co Environmental exposure co 8.3. Individual protection: Protective gloves Type	eters Iucose Assay Kit (Bor available gineering controls ontrols oction measures/Pers Material	ittle 5) : Ensur : Avoid	e good ventilation of the work st release to the environment. tective equipment Permeation	tation.	ss (mm)	
SECTION 8: Exposu         8.1.       Control parame         Raffinose/Sucrose/D-Gl         No additional information         8.2.       Appropriate engineering content         Appropriate engineering content         S.3.       Individual prote         Hand protection:         Protective gloves         Type         Disposable gloves         Eye protection:	eters Iucose Assay Kit (Bor available gineering controls ontrols oction measures/Pers Material	ittle 5) : Ensur : Avoid	e good ventilation of the work st release to the environment. tective equipment Permeation	tation.	ss (mm)	
SECTION 8: Exposu         3.1.       Control parame         Raffinose/Sucrose/D-GI         No additional information         3.2.       Appropriate engineering content         Band protection:         Protective gloves         Type         Disposable gloves         Eye protection:         Safety glasses	eters Iucose Assay Kit (Bor available gineering controls ontrols oction measures/Pers Material	ittle 5) : Ensur : Avoid onal prof	e good ventilation of the work st release to the environment. tective equipment Permeation	tation.		2 (< 1.5)
SECTION 8: Exposu         8.1.       Control parame         Raffinose/Sucrose/D-GI         No additional information         8.2.       Appropriate engineering content         Appropriate engineering content         Appropriate engineering content         Appropriate engineering content         B.3.       Individual prote         Hand protection:         Protective gloves         Type         Disposable gloves         Eye protection:         Safety glasses         Type	eters Iucose Assay Kit (Bor available gineering controls ontrols oction measures/Pers Material	<pre>citle 5) : Ensur : Avoid onal prof ) Use</pre>	e good ventilation of the work st release to the environment. tective equipment Permeation	tation.	Characteristics	2 (< 1.5)
SECTION 8: Exposu         3.1.       Control parame         Raffinose/Sucrose/D-GI         No additional information         3.2.       Appropriate engineering content         Band protection:         Protective gloves         Type         Disposable gloves         Eye protection:         Safety glasses	etters Iucose Assay Kit (Bor available gineering controls ontrols oction measures/Pers Material Nitrile rubber (NBR	ittle 5) : Ensur : Avoid onal prof	e good ventilation of the work st release to the environment. tective equipment Permeation	tation.		2 (< 1.5)

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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 Liquid particles

#### Personal protective equipment symbol(s):



SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and o	chemical 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 d <mark>ata available</mark>
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
0.0 Others is farmer than	

#### 9.2. Other information

No additional information available

SECTIO	DN 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 un	der 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.

<b>SECTION 11: Toxicological in</b>	formation
11.1. Information on toxicologica	al 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	itional 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

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Transport by sea

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

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 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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SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: Raffinose/Sucrose/D-Glucose Assay Kit (Bottle 4)
Product code	: K-RAFGL (Bottle 4)
1.2. Recommended use and restrictions	on use
Use of the substance/mixture	: Use as laboratory reagent
1.3. Supplier	
Manufacturer 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 n	nixture
GHS US classification	
Skin corrosion/irritation Category 2	Causes skin irritation
Serious eye damage/eye irritation Category 2	Causes serious eye irritation
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
Hazard statements (GHS US)	: Causes skin irritation Causes serious eye irritation May cause an allergy or asthma symptoms or breathing difficulties if inhaled
Precautionary statements (GHS US)	<ul> <li>Avoid breathing dust.</li> <li>Wash hands thoroughly after handling.</li> <li>Wear eye protection, protective clothing, protective gloves</li> <li>[In case of inadequate ventilation] wear respiratory protection.</li> <li>If on skin: Wash with plenty of water.</li> <li>If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.</li> <li>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>Specific treatment (see supplemental first aid instruction on this label).</li> <li>If skin irritation occurs: Get medical advice/attention.</li> <li>If eye irritation persists: Get medical advice/attention.</li> <li>If experiencing respiratory symptoms: Call a doctor, a POISON CENTER.</li> <li>Take off contaminated clothing and wash it before reuse.</li> <li>Dispose of contents/container to</li> </ul>

Other hazards which do not result in classification 2.3.

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- aminoantipyrene / 4- aminoantipyrin / aminoantipyrine / aminoazophenazone / aminoazophenazone / aminoar / 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.	
<b>SECTION 5: Fire-fighting measures</b>	
5.1. Suitable (and unsuitable) extinguis	hing media
Suitable extinguishing media	: Water spray. Dry powder. Foam.
5.2. Specific hazards arising from the c	hemical
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Special protective equipment and p	precautions 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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<b>SECTION 6: Accident</b>	al release meas	ures				
6.1. Personal precaut	ions, protective equ	ipment a	nd emergency procedures			
6.1.1. For non-emergen	cy personnel					
Emergency procedures		: Ventila	ate spillage area. Avoid breathi	ng dust/fu	me/gas/mist/vapors/	/spray.
6.1.2. For emergency re Protective equipment	esponders		attempt to take action without section 8: "Exposure controls			. For further information
6.2. Environmental pr	recautions					
Avoid release to the environment	ment.					
6.3. Methods and mat	terial for containme	nt and cle	aning up			
Methods for cleaning up		: Mecha	inically recover the product.			
Other information		: Dispos	se of materials or solid residue	s at an au	thorized site.	
6.4. Reference to othe	er sections					
For further information refer	to section 13.					
SECTION 7: Handling	and storage					
7.1. Precautions for s	afe handling					
Precautions for safe handling	g		e good ventilation of the work s ing dust/fume/gas/mist/vapors/		ear personal protecti	ve equipment. Avoid
Hygiene measures			eat, drink or smoke when usir		duct. Always wash h	nands after handling the
7.2. Conditions for sa	ife storage, includin	a any inc	compatibilities			
Storage conditions			n a well-ventilated place. Keep	cool.		
0			a an			
<b>SECTION 8: Exposure</b>	e controls/perso	onal pro	otection 🕒 🔚 — 🖂 🗧	1.1		
8.1. Control parameter	ers			<b>Y</b>		
Raffinose/Sucrose/D-Glu	cose Assay Kit (Bot	tle 4)				
No additional information a	vailable					
GLUCOSE OXIDASE (900						
No additional information a	vailable					
HORSERADISH PEROXIE	· · · ·					
No additional information a	vailable					
4-aminoantipyrine (83-07	,					
No additional information a	vailable					
8.2. Appropriate engi	neering controls					
Appropriate engineering con	trols	: Ensure	e good ventilation of the work s	station.		
Environmental exposure con	itrols	: Avoid	release to the environment.			
8.3. Individual protect	tion measures/Pers	onal prot	ective equipment			
Hand protection:						
Protective gloves						
Туре	Material		Permeation	Thickne	ss (mm)	Penetration
Disposable gloves	Nitrile rubber (NBR	)	3 (> 60 minutes)			2 (< 1.5)
Eye protection:						
Safety glasses						
Туре		Use			Characteristics	

Safety glasses

Dust

clear, With side shields

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#### Skin and body protection:

#### Wear suitable protective clothing

Туре	
Lab coat	

#### Respiratory protection:

Wear respiratory protection.

Device	Filter type	Condition
Dust mask	Type P1	Protection for Solid particles

#### Personal protective equipment symbol(s):



SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and c	chemical 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 d <mark>ata available and a statute and and a statute an</mark>
Melting point	:No d <mark>ata available / EEEE 不认</mark>
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	

#### 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 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	and a second of Many and the first date of the many date of			
-	ardous 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				
STOT-single exposure	: Not classified			
4-aminoantipyrine (83-07-8)				
STOT-single exposure	May cause respiratory irritation.			
STOT-repeated exposure	: Not classified			
Appiration bozord	: Not classified			
Aspiration hazard Viscosity, kinematic	: No data available			
Viscosity, kinematic				
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				

No additional information available

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#### 12.5. Other adverse effects

No additional information available

13.1. Disposal methods	
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 <b>and the state bull</b>
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	1
according to Federal Register / Vol. 77, No. 58	/ Monday, March 26, 2012 / Rules and Regulations
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SDS US (GHS HazCom 2012)	
This isformation is based on any surrout longuiladors an	d is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed
nis mornauon is pased on our current knowledde and	



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	·
SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: Raffinose/Sucrose/D-Glucose Assay Kit (Bottle 3)
Product code	: K-RAFGL (Bottle 3)
1.2. Recommended use and restrictions	s on use
Use of the substance/mixture	: Use as laboratory reagent
1.3. Supplier	
Manufacturer 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
Serious eye damage/eye irritation Category 1	Causes serious eye damage
2.2. GHS Label elements, including pre- GHS US labeling Hazard pictograms (GHS US)	:
Signal word (GHS US)	: Danger
Hazard statements (GHS US)	Causes skin irritation     Causes serious eye damage
Precautionary statements (GHS US)	<ul> <li>Wash hands thoroughly after handling.</li> <li>Wear eye protection, protective clothing, protective gloves If on skin: Wash with plenty of water.</li> <li>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>Immediately call a doctor, a POISON CENTER.</li> <li>Specific treatment (see supplemental first aid instruction on this label).</li> <li>If skin irritation occurs: Get medical advice/attention.</li> <li>Take off contaminated clothing and wash it before reuse.</li> </ul>
2.3. Other hazards which do not result	in classification
No additional information available	
2.4. Unknown acute toxicity (GHS US)	
Not applicable	
<b>SECTION 3: Composition/Information</b>	on on ingredients
3.1. Substances	
Not applicable	

Not applicable

3.2. **Mixtures** 

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Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
sodium hydroxide, caustic soda		(CAS-No.) 1310-73-2	1 – 5	Skin Corr. 1A, H314
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 measure	is
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	effects (acute and delayed)
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Serious damage to eyes.
4.3. Immediate medical attention an	d special treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting measur	res
5.1. Suitable (and unsuitable) exting	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from the	ne chemical <b>de la la chemical de la</b>
Hazardous decomposition products in case	
fire	
5.3. Special protective equipment a	nd 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 n	neasures
6.1. Personal precautions, protectiv	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information
	refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for conta	inment and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storag	ie
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
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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

#### Raffinose/Sucrose/D-Glucose 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	Thickne	ess (mm)	Penetration
Disposable gloves	Nitrile rubber (NBR	R)	3 (> 60 minutes)			2 (< 1.5)
Eye protection:						
Safety glasses						
Туре		Use			Characteristics	
Safety glasses	Droplet				clear, With side sh	ields

#### 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	Type P1	Protection for Liquid particles

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	
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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 infor	Other information		
No additional information available			
SECTION 10: Sta	ability and reactivity		
10.1. Reactivity			
The product is non-rea	active under normal conditions of use, storage and transport.		
10.2. Chemical s			
Stable under normal o	conditions.		
10.3. Possibility	of hazardous reactions		
No dangerous reaction	ns known under normal conditions of use.		
10.4. Conditions	to avoid		
None under recomme	nded storage and handling conditions (see section 7).		
10.5. Incompatib	le materials		
No additional informat	ion available		
10.6. Hazardous	decomposition products		
Under normal condition	ons of storage and use, hazardous decomposition products should not be produced.		
SECTION 11: To	xicological information		
11.1. Information	n on toxicological effects		
Acute toxicity (oral)	: Not classified		
Acute toxicity (dermal)	) : Not classified		
Acute toxicity (inhalati	on) : 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

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

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 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 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)

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	according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 01/05/2018 Revision date: 03/15/2022 Supersedes: 01/05/2018 Version: 1.0
SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: Raffinose/Sucrose/D-Glucose Assay Kit (Bottle 2)
Product code	: K-RAFGL (Bottle 2)
1.2. Recommended use and	
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 128612 cs@megazyme.com - www.megaz	
1.4. Emergency telephone	number
Emergency number	: +353 12861220 [9 am to 5 pm GMT - Monday to Friday]
SECTION 2: Hazard(s) ide	ntification
2.1. Classification of the su	ibstance or mixture
GHS US classification	
Not classified	
2.2. GHS Label elements, in	ncluding precautionary statements
GHS US labeling No labeling applicable	ED 書粒
2.3. Other hazards which d	o not result in classification
No additional information available	;
2.4. Unknown acute toxicit	y (GHS US)
Not applicable	
<b>SECTION 3: Composition</b>	/Information on ingredients
3.1. Substances	
Not applicable	
3.2. Mixtures	
-	substances to be mentioned according to the criteria of section 3.2 of HazCom 2012
SECTION 4: First-aid mea	
4.1. Description of first aid	
First-aid measures after inhalation	F
First-aid measures after skin conta	
First-aid measures after eye conta	
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
4.2. Most important sympto	oms and effects (acute and delayed)
4.3. Immediate medical atte	ention and special treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting	measures
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5.1.	Suitable	and unsultable	extinguishing media

Suitable extinguishing media

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

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5.2. Specific hazards	s arising from the che	mical					
Hazardous decomposition			fumes may be released.				
fire							
	ve equipment and pre		-				
Protection during firefighting	g		t attempt to take action withou atus. Complete protective clott		protective equipm	nent. Self-contained breath	ning
SECTION 6: Acciden							
6.1. Personal precau	utions, protective equi	pment a	and emergency procedures				
6.1.1. For non-emerge							
Emergency procedures		: Ventila	ate spillage area.				
6.1.2. For emergency	responders						
Protective equipment			t attempt to take action withou o section 8: "Exposure control			nent. For further information	n
6.2. Environmental p	orecautions						
Avoid release to the enviror	nment.						
6.3. Methods and ma	aterial for containmen	t and cl	eaning up				
Methods for cleaning up			up liquid spill into absorbent m				
Other information		: Dispo	se of materials or solid residue	s at an au	thorized site.		
6.4. Reference to oth							
For further information refe							
SECTION 7: Handlin	g and storage						
7.1. Precautions for	•	_		البيل			
Precautions for safe handlin	ng		e good ventilation of the work	station. W	ear personal prot	ective equipment.	
		· Do po	t act drink or amoka when uni	na this pro	duct Alwaya wa	ab banda aftar bandling th	~
		Do no : Do no		ng this pro	duct. Always was	sh hands after handling th	е
Hygiene measures 7.2. Conditions for s	afe storage, including	produ	ct.	ng this pro	duct. Always was	sh hands after handling th	e
	safe storage, including	produ any ind	ct.		duct. Always was	sh hands after handling th	e
7.2. Conditions for s Storage conditions		produ <b>any ind</b> : Store	ct. compatibilities in a well-ventilated place. Kee		duct. Always was	sh hands after handling th	e
7.2. Conditions for s Storage conditions SECTION 8: Exposu	re controls/perso	produ <b>any ind</b> : Store	ct. compatibilities in a well-ventilated place. Kee		duct. Always was	sh hands after handling th	e
7.2. Conditions for s Storage conditions SECTION 8: Exposu	re controls/perso	produ <b>any ind</b> : Store	ct. compatibilities in a well-ventilated place. Kee		duct. Always was	sh hands after handling th	e
7.2.       Conditions for s         Storage conditions         SECTION 8: Exposu         8.1.       Control parameter	re controls/perso ters	produ g any ing : Store nal pro	ct. compatibilities in a well-ventilated place. Kee		duct. Always was	sh hands after handling th	e
7.2.       Conditions for s         Storage conditions         SECTION 8: Exposu         8.1.       Control paramet         Raffinose/Sucrose/D-Glu	re controls/perso ters ucose Assay Kit (Bott	produ g any ing : Store nal pro	ct. compatibilities in a well-ventilated place. Kee		duct. Always was	sh hands after handling th	e
7.2.       Conditions for s         Storage conditions       SECTION 8: Exposu         8.1.       Control parameter	re controls/perso ters ucose Assay Kit (Bott	produ g any ing : Store nal pro	ct. compatibilities in a well-ventilated place. Kee		duct. Always was	sh hands after handling th	e
7.2. Conditions for s Storage conditions SECTION 8: Exposu 8.1. Control paramet Raffinose/Sucrose/D-Glu No additional information	re controls/perso ters ucose Assay Kit (Bott available	produ g any ing : Store nal pro	ct. compatibilities in a well-ventilated place. Kee		duct. Always was	sh hands after handling th	e
7.2.       Conditions for s         Storage conditions         SECTION 8: Exposu         8.1.       Control paramet         Raffinose/Sucrose/D-Gla         No additional information         8.2.       Appropriate englished	re controls/perso ters ucose Assay Kit (Bott available gineering controls	produl any ind Store nal pro	ct. compatibilities in a well-ventilated place. Kee	p cool.	duct. Always was	sh hands after handling th	e
7.2.       Conditions for s         Storage conditions         SECTION 8: Exposu         8.1.       Control paramet         Raffinose/Sucrose/D-Gli         No additional information         8.2.       Appropriate engineering co	re controls/perso ters ucose Assay Kit (Bott available gineering controls ntrols	produl any ind Store nal pro	ct. compatibilities in a well-ventilated place. Kee otection	p cool.	duct. Always was	sh hands after handling th	e
<ul> <li>7.2. Conditions for s</li> <li>Storage conditions</li> <li>SECTION 8: Exposu</li> <li>8.1. Control parameter</li> <li>Raffinose/Sucrose/D-Glance</li> <li>No additional information</li> <li>8.2. Appropriate engineering content</li> <li>Environmental exposure content</li> </ul>	re controls/perso ters ucose Assay Kit (Bott available gineering controls ontrols ontrols	produl any ind Store nal pro le 2) : Ensur : Avoid	ct. compatibilities in a well-ventilated place. Kee otection e good ventilation of the work release to the environment.	p cool.	duct. Always was	sh hands after handling th	e
7.2.       Conditions for s         Storage conditions         SECTION 8: Exposu         8.1.       Control paramet         Raffinose/Sucrose/D-Glu         No additional information         8.2.       Appropriate engineering co         Appropriate engineering co         Environmental exposure co         8.3.       Individual protein	re controls/perso ters ucose Assay Kit (Bott available gineering controls ntrols	produl any ind Store nal pro le 2) : Ensur : Avoid	ct. compatibilities in a well-ventilated place. Kee otection e good ventilation of the work release to the environment.	p cool.	duct. Always was	sh hands after handling th	e
<ul> <li>7.2. Conditions for s Storage conditions</li> <li>SECTION 8: Exposu 8.1. Control parameters</li> <li>Raffinose/Sucrose/D-Glin No additional information</li> <li>8.2. Appropriate engineering content</li> <li>Environmental exposure content</li> <li>8.3. Individual protection:</li> </ul>	re controls/perso ters ucose Assay Kit (Bott available gineering controls ontrols ontrols	produl any ind Store nal pro le 2) : Ensur : Avoid	ct. compatibilities in a well-ventilated place. Kee otection e good ventilation of the work release to the environment.	p cool.	duct. Always was	sh hands after handling th	e
7.2.       Conditions for s         Storage conditions         SECTION 8: Exposu         8.1.       Control paramet         Raffinose/Sucrose/D-Glu         No additional information         8.2.       Appropriate engineering co         Appropriate engineering co         Environmental exposure co         8.3.       Individual proteer	re controls/perso ters ucose Assay Kit (Bott available gineering controls ontrols ontrols	produl any ind Store nal pro le 2) : Ensur : Avoid	ct. compatibilities in a well-ventilated place. Kee otection e good ventilation of the work release to the environment.	p cool.			e
7.2. Conditions for s Storage conditions SECTION 8: Exposu 8.1. Control parameter Raffinose/Sucrose/D-Glin No additional information 8.2. Appropriate engineering co Environmental exposure co 8.3. Individual protection:	re controls/perso ters ucose Assay Kit (Bott available gineering controls ontrols ontrols	produl any ind Store nal pro le 2) : Ensur : Avoid	ct. compatibilities in a well-ventilated place. Kee otection e good ventilation of the work release to the environment.	p cool.	duct. Always was	sh hands after handling th	e
7.2. Conditions for s Storage conditions SECTION 8: Exposu 8.1. Control paramet Raffinose/Sucrose/D-Glu No additional information 8.2. Appropriate engineering co Environmental exposure co 8.3. Individual protection: Protective gloves	re controls/perso ters ucose Assay Kit (Bott available gineering controls ontrols ontrols ction measures/Perso	produl any ind Store nal pro	ct. compatibilities in a well-ventilated place. Kee otection e good ventilation of the work release to the environment. tective equipment	p cool.			e
7.2. Conditions for s Storage conditions SECTION 8: Exposu 8.1. Control paramet Raffinose/Sucrose/D-Gli No additional information 8.2. Appropriate engineering co Environmental exposure co 8.3. Individual protect Hand protection: Protective gloves Type	re controls/perso ters ucose Assay Kit (Bott available gineering controls ontrols ontrols ction measures/Perso	produl any ind Store nal pro	ct. compatibilities in a well-ventilated place. Kee Dtection e good ventilation of the work release to the environment. tective equipment Permeation	p cool.		Penetration	e
7.2. Conditions for s Storage conditions SECTION 8: Exposu 8.1. Control paramet Raffinose/Sucrose/D-Gla No additional information 8.2. Appropriate engineering co Environmental exposure co 8.3. Individual protect Hand protection: Protective gloves Type Disposable gloves	re controls/perso ters ucose Assay Kit (Bott available gineering controls ontrols ontrols ction measures/Perso	produl any ind Store nal pro	ct. compatibilities in a well-ventilated place. Kee Dtection e good ventilation of the work release to the environment. tective equipment Permeation	p cool.		Penetration	e
<ul> <li>7.2. Conditions for s Storage conditions</li> <li>SECTION 8: Exposu</li> <li>8.1. Control paramet</li> <li>8.1. Control paramet</li> <li>8.2. Appropriate engineering co</li> <li>Environmental exposure co</li> <li>8.3. Individual protection: Protective gloves</li> <li>Type</li> <li>Disposable gloves</li> <li>Eye protection: Safety glasses</li> </ul>	re controls/perso ters ucose Assay Kit (Bott available gineering controls ontrols ction measures/Perso Material Nitrile rubber (NBR)	produl any ind Store nal pro	ct. compatibilities in a well-ventilated place. Kee Dtection e good ventilation of the work release to the environment. tective equipment Permeation	p cool.		Penetration 2 (< 1.5)	e
<ul> <li>7.2. Conditions for s Storage conditions</li> <li>SECTION 8: Exposu 8.1. Control parameters</li> <li>Raffinose/Sucrose/D-Glin No additional information</li> <li>8.2. Appropriate engineering content of the second state of the second state</li></ul>	re controls/perso ters ucose Assay Kit (Bott available gineering controls ontrols ction measures/Perso Material Nitrile rubber (NBR)	produl any ind Store nal produce E 2) E Ensur Avoid nal prod	ct. compatibilities in a well-ventilated place. Kee Dtection e good ventilation of the work release to the environment. tective equipment Permeation	p cool.	ss (mm)	Penetration 2 (< 1.5)	e
<ul> <li>7.2. Conditions for s Storage conditions</li> <li>SECTION 8: Exposu</li> <li>8.1. Control paramet</li> <li>8.1. Control paramet</li> <li>8.2. Appropriate engineering co</li> <li>Environmental exposure co</li> <li>8.3. Individual protection: Protective gloves</li> <li>Type</li> <li>Disposable gloves</li> <li>Eye protection: Safety glasses</li> </ul>	re controls/perso ters ucose Assay Kit (Bott available gineering controls ontrols ction measures/Perso Material Nitrile rubber (NBR)	produl any ind Store nal pro	ct. compatibilities in a well-ventilated place. Kee Dtection e good ventilation of the work release to the environment. tective equipment Permeation	p cool.	ss (mm)	Penetration 2 (< 1.5)	e

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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 Liquid particles	

#### Personal protective equipment symbol(s):



SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and o	
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 d <mark>ata available and a standar landar</mark>
Boiling point	: No d <mark>ata available</mark>
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
0.0 Other information	

#### 9.2. Other information

No additional information available

SECTIO	DN 10: Stability and reactivity
10.1.	Reactivity
The produ	ict is non-reactive under normal conditions of use, storage and transport.
10.2.	Chemical stability
Stable un	der normal conditions.

 10.3.
 Possibility of hazardous reactions

 No dangerous reactions known under normal conditions of use.

Safety Data Sheet

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 inf	formation
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	itional information available
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

# 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

Safety Data Sheet

Transport by sea

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

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
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.



Version: 1.0

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 01/05/2018 Revision date: 03/15/2022 Supersedes: 01/05/2018

141-3	Issue date: 01/05/2018	Revision date: 03/15/2022	Supersedes: 01/05/2018	Version: 1.0
SECTION 1: Identification				
1.1. Identification				
Product form	: Mixture			
Product name	: Raffinose/Su	crose/D-Glucose Assay Kit (Bo	ttle 1)	
Product code	: K-RAFGL (B	ottle 1)		
1.2. Recommended use and re	strictions 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 12861264 cs@megazyme.com - www.megazyme	e.com			
1.4. Emergency telephone nun	nber			
Emergency number	: +353 128612	220 [9 am to 5 pm GMT - Monda	ay to Friday]	
SECTION 2: Hazard(s) identi	fication			
2.1. Classification of the subst	ance or mixture			
GHS US classification				
Not classified				
2.2. GHS Label elements, inclu	ding precautionary state	nents		
GHS US labeling				
No labeling applicable		「「車松		
2.3. Other hazards which do no	ot result in classification			
No additional information available				
2.4. Unknown acute toxicity (G	HS US)			
Not applicable				
<b>SECTION 3: Composition/Inf</b>	ormation on ingredie	ents		
3.1. Substances				
Not applicable				
3.2. Mixtures				
This mixture does not contain any sub	stances to be mentioned ac	ccording to the criteria of section	1 3.2 of HazCom 2012	
SECTION 4: First-aid measu		- 		
4.1. Description of first aid me				
First-aid measures after inhalation		son to fresh air and keep comfo	rtable for breathing.	
	•	ith plenty of water.		
First-aid measures after skin contact				
	: Rinse eves w	vith water as a precaution.		
First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	•	vith water as a precaution. center/doctor/physician if you t	eel unwell.	
First-aid measures after eye contact First-aid measures after ingestion	: Call a poison	center/doctor/physician if you	eel unwell.	
First-aid measures after eye contact	: Call a poison	center/doctor/physician if you	eel unwell.	
First-aid measures after eye contact First-aid measures after ingestion	Call a poison	center/doctor/physician if you television if you	eel unwell.	

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media

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

Safety Data Sheet

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

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5.2. Specific hazards	arising from the ch	emical				
Hazardous decomposition p			fumes may be released.			
îre						
	e equipment and p					
Protection during firefighting	I		ot attempt to take action witho atus. Complete protective clo		protective equipmer	it. Self-contained breathing
SECTION 6: Accident						
6.1. Personal precaut	tions, protective eq	uipment	and emergency procedures			
6.1.1. For non-emerger	ncy personnel	.,				
Emergency procedures		: Ventil	ate spillage area.			
6.1.2. For emergency r	esponders					
Protective equipment			ot attempt to take action witho to section 8: "Exposure contro			t. For further information
6.2. Environmental p	recautions					
Avoid release to the environ	iment.					
6.3. Methods and ma	terial for containme	ent and cl	eaning up			
Methods for cleaning up		: Take	up liquid spill into absorbent r	naterial.		
Other information		: Dispo	se of materials or solid residu	ies at an au	thorized 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			a an a bh - sheke L			
Precautions for safe handlin	g		e good ventilation of the work			
Hygiene measures		: Do no produ	ot eat, drink or smoke when us	sing this pro	oduct. Always wash	hands after handling the
Storage conditions SECTION 8: Exposur 3.1. Control parameter Raffinose/Sucrose/D-Glu	ers	onal pr	in a well-ventilated place. Ke			
No additional information a						
8.2. Appropriate engi	ineering controls					
Appropriate engineering con	ntrols	: Ensur	re good ventilation of the work	station.		
Environmental exposure cor	ntrols	: Avoid	release to the environment.			
8.3. Individual protec	tion measures/Pers	sonal pro	tective equipment			
Hand protection:		-	-			
Protective gloves						
	Material		Dermection	Thickny		Depatration
Туре			Permeation	INICKNE	ess (mm)	Penetration
Disposable gloves	Nitrile rubber (NBF	<b>(</b> )	3 (> 60 minutes)			2 (< 1.5)
Enclosed 41						
Eye protection:						
Eye protection: Safety glasses						
		Use			Characteristics	
Safety glasses		<b>Use</b> Droplet			Characteristics With side shields	
Safety glasses Type	n:					

Safety Data Sheet

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

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):



<b>SECTION 9: Physical and chemical</b>	properties
9.1. Information on basic physical and c	
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 <b>standar bedee</b>
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
0.2 Other information	

#### 9.2. Other information

No additional information available

SECTIO	DN 10: Stability and reactivity
10.1.	Reactivity
The produ	ict is non-reactive under normal conditions of use, storage and transport.
10.2.	Chemical stability
Stable un	der normal conditions.

 10.3.
 Possibility of hazardous reactions

 No dangerous reactions known under normal conditions of use.

Safety Data Sheet

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.

<b>SECTION 11: Toxicological inf</b>	ormation
11.1. Information on toxicological	effects
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin 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.

ersistence and degradability
al information available
ioaccumulative potential
al information available
lobility in soil
al information available
ther adverse effects
al 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

Safety Data Sheet

Transport by sea

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

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 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.



Version: 1.0

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 01/05/2018 Revision date: 03/15/2022 Supersedes: 01/05/2018

	Issue date. 01/03/2018	Revision date: 03/13/2022	Supersedes. 01/03/2018	
SECTION 1: Identification				
1.1. Identification				
Product form	: Mixture			
Product name	: Raffinose/Su	crose/D-Glucose Assay Kit (Bo	ottle 6)	
Product code	: K-RAFGL (B	ottle 6)		
1.2. Recommended use and	restrictions on use			
Use of the substance/mixture	: Use as labor	atory reagent		
1.3. Supplier				
Manufacturer 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	220 [9 am to 5 pm GMT - Mond	ay to Friday]	
SECTION 2: Hazard(s) iden	tification			
2.1. Classification of the sub				
GHS US classification				
Not classified				
2.2. GHS Label elements, inc	luding precautionary state	ments		
GHS US labeling				
No labeling applicable				
2.3. Other hazards which do	not result in classification			
No additional information available	not room in shoomouton			
2.4. Unknown acute toxicity	(GHS US)			
Not applicable	(======================================			
	oformation an incurali			
SECTION 3: Composition/I	mormation on ingredi	ents		
3.1. Substances				
Not applicable				
3.2. Mixtures				
This mixture does not contain any s	ubstances to be mentioned a	ccording to the criteria of sectio	n 3.2 of HazCom 2012	
SECTION 4: First-aid meas	ures			
4.1. Description of first aid n				
First-aid measures after inhalation		son to fresh air and keep comfo	ortable for breathing.	
First-aid measures after skin contac		ith plenty of water.	5	
First-aid measures after eye contact		vith water as a precaution.		
First-aid measures after ingestion		center/doctor/physician if you	feel unwell.	
-	ns and effects (acute and d			
	הש מות פוופטוש (מכעופ מוום ש	ciayeu		
4.3. Immediate medical atter	tion and special treatment,	if necessary		
Treat symptomatically.	nion and special freatment,	n necessary		
<b>SECTION 5: Fire-fighting m</b>	easures			

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

Safety Data Sheet

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

5.2. Specific hazards	arising from the chem	cal			
Hazardous decomposition p fire	roducts in case of :	Toxic fumes may be released.			
5.3. Special protectiv	e equipment and preca	utions for fire-fighters			
Protection during firefighting		Do not attempt to take action with apparatus. Complete protective cl		rotective equipme	nt. Self-contained breathing
SECTION 6: Acciden					
		nent and emergency procedure	S		
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 with refer to section 8: "Exposure conti			nt. For further information
6.2. Environmental p	recautions				
Avoid release to the environ	ment.				
6.3. Methods and ma	terial for containment a	ind cleaning up			
Methods for cleaning up		Mechanically recover the product.			
Other information	:	Dispose of materials or solid resid	lues at an au	thorized site.	
6.4. Reference to oth					
For further information refer	to section 13.				
SECTION 7: Handling	g and storage				
7.1. Precautions for s	•	The second se			
Precautions for safe handlin	-	Ensure good ventilation of the wor			
Hygiene measures		Do no <mark>t eat, drink or smoke when</mark> u product.	using this pro	duct. Always wash	hands after handling the
SECTION 8: Exposur 8.1. Control paramete Raffinose/Sucrose/D-Glu No additional information a	ers icose Assay Kit (Bottle				
8.2. Appropriate engi	ineering controls				
		Ensure good ventilation of the wo			
	itrois :	Ensure good ventilation of the wor	rk station.		
Appropriate engineering cor		Avoid release to the environment.			
Appropriate engineering cor Environmental exposure cor	ntrols :	-			
Appropriate engineering cor Environmental exposure cor 8.3. Individual protec	ntrols :	Avoid release to the environment.			
Appropriate engineering cor Environmental exposure cor 8.3. Individual protection:	ntrols :	Avoid release to the environment.			
Appropriate engineering cor Environmental exposure cor 3.3. Individual protec Hand protection: Protective gloves	ntrols :	Avoid release to the environment.			
Appropriate engineering cor Environmental exposure cor 3.3. Individual protect Hand protection: Protective gloves Type	ntrols :	Avoid release to the environment.		ss (mm)	Penetration
Appropriate engineering cor Environmental exposure cor 3.3. Individual protec Hand protection: Protective gloves	ntrols :	Avoid release to the environment.		ss (mm)	Penetration           2 (< 1.5)
Appropriate engineering cor Environmental exposure cor 8.3. Individual protect Hand protection: Protective gloves Type	ntrols : tion measures/Persona Material	Avoid release to the environment.		ss (mm)	
Appropriate engineering cor Environmental exposure cor 8.3. Individual protect Hand protection: Protective gloves Type Disposable gloves	ntrols : tion measures/Persona Material	Avoid release to the environment.		ss (mm)	
Appropriate engineering cor Environmental exposure cor 8.3. Individual protect Hand protection: Protective gloves Type Disposable gloves Eye protection:	ntrols : tion measures/Persona Material	Avoid release to the environment. al protective equipment Permeation 3 (> 60 minutes)		ss (mm) Characteristics	
Appropriate engineering cor Environmental exposure cor 8.3. Individual protect Hand protection: Protective gloves Type Disposable gloves Eye protection: Safety glasses Type	ntrols : tion measures/Persona Material Nitrile rubber (NBR)	Avoid release to the environment.  Al protective equipment  Permeation  3 (> 60 minutes)  se			2 (< 1.5)
Appropriate engineering cor Environmental exposure cor 8.3. Individual protect Hand protection: Protective gloves Type Disposable gloves Eye protection: Safety glasses	Material     Nitrile rubber (NBR)	Avoid release to the environment.  Al protective equipment  Permeation  3 (> 60 minutes)  se		Characteristics	2 (< 1.5)

Safety Data Sheet

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

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	chemical properties
Physical state	: Solid
Color	: No data available
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	

9.2. Other information

No additional information available

SECTIO	IN 10: Stability and reactivity
10.1.	Reactivity
The produ	ict is non-reactive under normal conditions of use, storage and transport.
10.2.	Chemical stability
Stable und	der normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

Safety Data Sheet

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.

<b>SECTION 11: Toxicological inf</b>	formation
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 additional information available		
12.3.	Bioaccumulative potential	
No additional information available		
12.4.	Mobility in soil	
No additional information available		
12.5.	Other adverse effects	
No addi	tional 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

Safety Data Sheet

Transport by sea

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

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 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)

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