

Glycerol Assay Kit

Kit Safety Information Sheet

Date of issue: 28/11/2013

Revision date: 08/12/2017

Supersedes: 06/09/2016

Version: 1.3

Product name		-	ol Assay Kit			
Product code		: K-GCR	KUL .			
I.2. Details of the sup	pplier of the KIT safe	ety inform	ation sheet			
Megazyme Bray Business Park A98 VV29 Bray - Ireland						
Γ +353 12861220 - F +353 1 s@megazyme.com - <u>www.</u>						
SECTION 2: General i	information					
This product is a Kitwhich a	anaista of acuaral ina	lanandanti		nononto		
This product is a Kit which co		•	,, ,,			LI L
	5	od laborat	ory practices an	d appropriate persor	nal protective equipment shou	ld be used
SECTION 3: Kit conte	ents					_
Name	General descripti	ion	Quantity	Unit	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Glycerol Assay Kit (Bottle 2)	Reagent		1	pcs (pieces)	Acute Tox. 4 (Oral), H302 Aquatic Chronic 3, H412	
Glycerol Assay Kit (Bottle 4)	Reagent		1	pcs (pieces)	Resp. Sens. 1, H334]
No substance or mixture incl he requirements of Regulati				ous according to Re	gulation (EC) No. 1272/2008 [CLP] and therefore
Name	General descripti	ion	Quantity	Unit		
	•		-			
Glycerol Assay Kit (Bottle 1)	Buffer		1	pcs (pieces)		
Glycerol Assay Kit (Bottle 1) Glycerol Assay Kit (Bottle 3)	Reagent		1	pcs (pieces) pcs (pieces)		
Glycerol Assay Kit (Bottle 3)	Reagent Reagent		1	pcs (pieces)		
Glycerol Assay Kit (Bottle 3) Glycerol Assay Kit (Bottle 5)	Reagent Reagent		1	pcs (pieces)		
Glycerol Assay Kit (Bottle 3) Glycerol Assay Kit (Bottle 5) SECTION 4: General a	Reagent Reagent advice		1	pcs (pieces)		
Glycerol Assay Kit (Bottle 3) Glycerol Assay Kit (Bottle 5) SECTION 4: General a No data available	Reagent Reagent advice	: Avoid r	1	pcs (pieces) pcs (pieces)		
Glycerol Assay Kit (Bottle 3) Glycerol Assay Kit (Bottle 5) SECTION 4: General a No data available SECTION 5: Safe han	Reagent Reagent advice	: Store in	1 1 release to the er n a well-ventilate	pcs (pieces) pcs (pieces)		
Glycerol Assay Kit (Bottle 3) Glycerol Assay Kit (Bottle 5) SECTION 4: General a No data available SECTION 5: Safe han Environmental precautions Storage conditions	Reagent Reagent advice dling advice	: Store ii Keep c : Ensure	1 1 release to the er n a well-ventilate cool.	vironment ed place.		
Glycerol Assay Kit (Bottle 3) Glycerol Assay Kit (Bottle 5) SECTION 4: General a No data available SECTION 5: Safe han Environmental precautions Storage conditions Precautions for safe handling	Reagent Reagent advice dling advice	: Store ii Keep c : Ensure	1 1 release to the er n a well-ventilate cool.	vironment ed place.		
Glycerol Assay Kit (Bottle 3) Glycerol Assay Kit (Bottle 5) SECTION 4: General a No data available SECTION 5: Safe han Environmental precautions Storage conditions Precautions for safe handling SECTION 6: First aid	Reagent Reagent advice dling advice	: Store in Keep o : Ensure Wear p	1 1 release to the er n a well-ventilate cool. good ventilation personal protecti	vironment ed place.		
Glycerol Assay Kit (Bottle 3) Glycerol Assay Kit (Bottle 5) SECTION 4: General a No data available SECTION 5: Safe han Environmental precautions Storage conditions Precautions for safe handling SECTION 6: First aid First-aid measures after eye	Reagent Reagent advice dling advice measures contact	 Store in Keep c Ensure Wear p Rinse e 	1 1 release to the er n a well-ventilate cool. good ventilation personal protecti eyes with water	pcs (pieces) pcs (pieces) vironment ed place. n of the work station ve equipment as a precaution	unwell	
Glycerol Assay Kit (Bottle 3) Glycerol Assay Kit (Bottle 5) SECTION 4: General a No data available SECTION 5: Safe han Environmental precautions Storage conditions Precautions for safe handling SECTION 6: First aid First-aid measures after eye First-aid measures after inge	Reagent Reagent advice dling advice measures contact estion	 Store in Keep of Ensure Wear p Rinse of Call a p 	1 1 1 release to the er n a well-ventilation good ventilation personal protecti eyes with water poison center or	pcs (pieces) pcs (pieces) vironment ed place. n of the work station ve equipment as a precaution a doctor if you feel u		
Glycerol Assay Kit (Bottle 3) Glycerol Assay Kit (Bottle 5) SECTION 4: General a No data available SECTION 5: Safe han Environmental precautions Storage conditions Precautions for safe handling SECTION 6: First aid First-aid measures after eye First-aid measures after inge	Reagent Reagent advice dling advice g measures contact estion alation	 Store in Keep of Ensure Wear p Rinse of Call a p Remov 	1 1 1 release to the er n a well-ventilation good ventilation personal protection eyes with water poison center or re person to fres	pcs (pieces) pcs (pieces) vironment ed place. n of the work station ve equipment as a precaution a doctor if you feel u h air and keep comfo	unwell portable for breathing.	
Glycerol Assay Kit (Bottle 3) Glycerol Assay Kit (Bottle 5) SECTION 4: General a No data available SECTION 5: Safe han Environmental precautions Storage conditions Precautions for safe handling SECTION 6: First aid First-aid measures after eye First-aid measures after inpa First-aid measures after inpa First-aid measures after skin	Reagent Reagent advice advice dling advice g measures contact estion alation contact	 Store in Keep of Ensure Wear p Rinse e Call a p Remov Wash s 	1 1 1 release to the er n a well-ventilation bersonal protection eyes with water poison center or re person to fres skin with plenty of	pcs (pieces) pcs (pieces) vironment ed place. n of the work station ve equipment as a precaution a doctor if you feel u h air and keep comfo		
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Glycerol Assay Kit (Bottle 3) Glycerol Assay Kit (Bottle 5) SECTION 4: General a No data available SECTION 5: Safe han Environmental precautions Storage conditions Precautions for safe handling SECTION 6: First aid First-aid measures after eye First-aid measures after inge First-aid measures after inha First-aid measures after skin Other medical advice or trea SECTION 7: Fire fight	Reagent Reagent advice advice dling advice g measures contact estion alation contact tment	 Store in Keep of Ensure Wear p Ensure Wear p Rinse e Call a p Remov Wash s Treat s 	1 1 1 release to the er n a well-ventilation good ventilation personal protection eyes with water poison center or ve person to fres skin with plenty or symptomatically	pcs (pieces) pcs (pieces) pcs (pieces) vironment ed place. n of the work station ve equipment as a precaution a doctor if you feel u h air and keep comfo of water	ortable for breathing.	
Glycerol Assay Kit (Bottle 3) Glycerol Assay Kit (Bottle 5) SECTION 4: General 3 No data available SECTION 5: Safe han Environmental precautions Storage conditions Precautions for safe handling SECTION 6: First aid First-aid measures after eye First-aid measures after inge First-aid measures after inge First-aid measures after skin Other medical advice or trea	Reagent Reagent advice advice dling advice g measures contact estion alation contact tment	 Store in Keep of Ensure Wear p Rinse e Call a p Remov Wash s Treat s 	1 1 1 release to the er n a well-ventilation good ventilation personal protection eyes with water poison center or ve person to fres skin with plenty or symptomatically	pcs (pieces) pcs (pieces) pcs (pieces) vironment ad place. n of the work station ve equipment as a precaution a doctor if you feel u h air and keep comfo of water		
Glycerol Assay Kit (Bottle 3) Glycerol Assay Kit (Bottle 5) SECTION 4: General a No data available SECTION 5: Safe han Environmental precautions Storage conditions Precautions for safe handling SECTION 6: First aid First-aid measures after eye First-aid measures after inge First-aid measures after inha First-aid measures after skin Other medical advice or trea SECTION 7: Fire fight	Reagent Reagent advice dling advice dling advice measures contact estion lation contact tment ting measures	 Store in Keep of Control (Keep of Control (Keep	1 1 1 1 release to the er n a well-ventilate cool. good ventilation personal protecti eyes with water poison center or ve person to fres skin with plenty of symptomatically attempt to take	pcs (pieces) pcs (pieces) pcs (pieces) vironment ed place. n of the work station ve equipment as a precaution a doctor if you feel u h air and keep comfo of water action without suitab g apparatus othing	ortable for breathing.	

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fire

SECTION 8: Other information

No data available



Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 28/11/2013 Revision date: 23/11/2017

Supersedes: 06/09/2016 Version: 1.3 SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. **Product identifier** Product form : Mixture Product name : Glycerol Assay Kit (Bottle 5) Product code : K-GCROL (Bottle 5) 1.2. Relevant identified uses of the substance or mixture and uses advised against **Relevant identified uses** 1.2.1. : Professional use Main use category Use of the substance/mixture : Use as laboratory reagent 1.2.2. Uses advised against No additional information available Details of the supplier of the safety data sheet 1.3. Manufacturer Megazyme Bray Business Park A98 YV29 Bray - Ireland T +353 12861220 - F +353 12861264 cs@megazyme.com - www.megazyme.com **Emergency telephone number** 1.4. : +353 12861220 [9 am to 5 pm GMT - Monday to Friday] Emergency number **SECTION 2: Hazards identification** 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified Adverse physicochemical, human health and environmental effects To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice. Label elements 2.2. Labelling according to Regulation (EC) No. 1272/2008 [CLP] : EUH032 - Contact with acids liberates very toxic gas. **EUH-statements** Labelling according to: exemption for inner packaging where the contents do not exceed 10ml No labelling required 23 **Other hazards** No additional information available SECTION 3: Composition/information on ingredients 3.1. **Substances** Not applicable 3.2. **Mixtures**

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

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

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according to Regulation (EU) 2015/830

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4.2.	Most important symptoms and effect	ts, both acute and delayed
No addit	ional information available	
4.3.	Indication of any immediate medica	I attention and special treatment needed
Treat sy	nptomatically.	
SECTI	ON 5: Firefighting measures	
5.1.	Extinguishing media	
Suitable	extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2.	Special hazards arising from the sul	bstance or mixture
Hazardo fire	us decomposition products in case of	: Toxic fumes may be released.
5.3.	Advice for firefighters	
Protectic	n during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTI	ON 6: Accidental release meas	sures
6.1.	Personal precautions, protective eq	uipment and emergency procedures
6.1.1.	For non-emergency personnel	
Emerger	ncy procedures	: Ventilate spillage area.
6.1.2.	For emergency responders	
	e equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2.	Environmental precautions	
Avoid re	ease to the environment.	
6.3.	Methods and material for containme	ent and cleaning up
Methods	for cleaning up	: Take up liquid spill into absorbent material.
Other inf	ormation	: Dispose of materials or solid residues at an authorized site.
6.4.	Reference to other sections	
For furth	er information refer to section 13.	
SECTI	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precauti	ons for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene	measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2.	Conditions for safe storage, including	
Storage	conditions	: Store in a well-ventilated place. Keep cool.
7.3.	Specific end use(s)	
No addit	ional information available	
SECTI	ON 8: Exposure controls/pers	onal protection
8.1.	Control parameters	
No addit	ional information available	
8.2.	Exposure controls	
Approp	iate engineering controls:	

Ensure good ventilation of the work station.

Hand protection:

Protective gloves

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

Eye protection:

Safety glasses

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according to Regulation (EU) 2015/830

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

Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment



Environmental exposure controls:

Avoid release to the environment.

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

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
Contact	with acids liberates very toxic gas.
10.4.	Conditions to avoid

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

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 10.5.
 Incompatible materials

 Acids.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological infor	mation
11.1. Information on toxicological ef	fects
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information	
12.1. Toxicity	
,	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity :	Not classified
Chronic aquatic toxicity :	Not classified
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods :	Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / ADN	
ADR	IATA
14.1. UN number	
Not applicable	Not applicable
14.2. UN proper shipping name	

Not applicable	Not applicable
14.2. UN proper shipping name	
Not applicable	Not applicable
14.3. Transport hazard class(es)	
Not applicable	Not applicable
14.4. Packing group	
Not applicable	Not applicable
14.5. Environmental hazards	
Not applicable	Not applicable
	00/3

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. D. ulation (EU) 2015/830 ...

ADR	ΙΑΤΑ
	No supplementary information available
14.6.	Special precautions for user
- Overlan Not applic	d transport able
- Air trans	
Not applic	•
14.7.	Transport in bulk according to Annex II of Marpol and the IBC Code
Not applic	able
SECTIC	N 15: Regulatory information
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
15.1.1.	EU-Regulations
Contains r	no REACH substances with Annex XVII restrictions
Contains r	no substance on the REACH candidate list
Contains r	no REACH Annex XIV substances
15.1.2.	National regulations
No additio	nal information available
15.2.	Chemical safety assessment

SECTION 16: Other information

Full text of H- and EUH-statements:

EUH032	Contact with acids liberates very toxic gas.

SDS EU (REACH Annex II)

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



Glycerol Assay Kit (Bottle 4) Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 28/11/2013 Revis Revision date: 29/01/2018

ECTION 1: Identification o	Date of issue: 28/11/2013Revision date: 29/01/2018Supersedes: 06/09/2016Version: 1.3
	f the substance/mixture and of the company/undertaking
.1. Product identifier	
roduct form	: Mixture
roduct name	: Glycerol Assay Kit (Bottle 4)
roduct code	: K-GCROL (Bottle 4)
2. Relevant identified uses	of the substance or mixture and uses advised against
.2.1. Relevant identified uses	
lain use category	: Professional use
se of the substance/mixture	: Use as laboratory reagent
2.2. Uses advised against	
o additional information available	
3. Details of the supplier of	the safety data sheet
lanufacturer legazyme ray Business Park 98 YV29 Bray - Ireland +353 12861220 - F +353 12861264 s@megazyme.com - www.megazyr	
.4. Emergency telephone nu	mber
mergency number	: +353 12861220 [9 am to 5 pm GMT - Monday to Friday]
ull text of H statements : see section	n 16
Tull text of H statements : see section Adverse physicochemical, human May cause allergy or asthma sympto	n 16
, , , , , , , , , , , , , , , , , , , ,	n 16 health and environmental effects Ims or breathing difficulties if inhaled.
ull text of H statements : see section dverse physicochemical, human fay cause allergy or asthma sympto .2. Label elements abelling according to Regulation	n 16 health and environmental effects ims or breathing difficulties if inhaled. (EC) No. 1272/2008 [CLP]
dverse physicochemical, human ay cause allergy or asthma sympto 2. Label elements abelling according to Regulation azard pictograms (CLP)	n 16 health and environmental effects ims or breathing difficulties if inhaled. (EC) No. 1272/2008 [CLP]
ull text of H statements : see section dverse physicochemical, human ay cause allergy or asthma sympto 2. Label elements abelling according to Regulation azard pictograms (CLP)	n 16 health and environmental effects ims or breathing difficulties if inhaled. (EC) No. 1272/2008 [CLP] : : : : : : : : : : : : :
dverse physicochemical, human lay cause allergy or asthma sympto 2. Label elements abelling according to Regulation azard pictograms (CLP) ignal word (CLP) azardous ingredients	n 16 health and environmental effects ms or breathing difficulties if inhaled. (EC) No. 1272/2008 [CLP] : : : : : : : : : : : : :
dverse physicochemical, human ay cause allergy or asthma sympto 2. Label elements abelling according to Regulation azard pictograms (CLP) ignal word (CLP) azardous ingredients azard statements (CLP)	n 16 health and environmental effects ims or breathing difficulties if inhaled. (EC) No. 1272/2008 [CLP] : : : : : : : : : : : : :
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ull text of H statements : see section deverse physicochemical, human flay cause allergy or asthma sympto .2. Label elements abelling according to Regulation lazard pictograms (CLP) lazardous ingredients lazard statements (CLP) recautionary statements (CLP)	 hait and environmental effects ms or breathing difficulties if inhaled. (EC) No. 1272/2008 [CLP] GHS08 E Danger Kinase (phosphorylating), glycerol, glycerokinase H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. P264 - [In case of inadequate ventilation] wear respiratory protection. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342+P311 - If experiencing respiratory symptoms: Call a doctor, a POISON CENTER. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. EUH032 - Contact with acids liberates very toxic gas.

Safety Data Sheet

according to Regulation (EU) 2015/830

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Kinase (phosphorylating), glycerol, glycerokinase	(CAS-No.) 9030-66-4 (EC-No.) 232-862-0	1 - 5	Resp. Sens. 1, H334
sodium azide substance with a Community workplace exposure limit	(CAS-No.) 26628-22-8 (EC-No.) 247-852-1 (EC Index-No.) 011-004-00-7	< 0.1	Acute Tox. 2 (Oral), H300 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

SECTION 4: First aid measures						
4.1. Description of first aid measures						
First-aid measures general : Ca	all a poison center or a doctor if you feel unwell.					
	emove person to fresh air and keep comfortable for breathing. If experiencing respiratory mptoms: Call a poison center or a doctor.					
First-aid measures after skin contact : Wa	ash skin with plenty of water.					
First-aid measures after eye contact : Rir	nse eyes with water as a precaution.					
First-aid measures after ingestion : Ca	all a poison center or a doctor if you feel unwell.					
4.2. Most important symptoms and effects, bo	th acute and delayed					
Symptoms/effects after inhalation : Ma	ay cause allergy or asthma symptoms or breathing difficulties if inhaled.					
4.3. Indication of any immediate medical attention	tion and special treatment needed					
Treat symptomatically.						
SECTION 5: Firefighting measures						
5.1. Extinguishing media						
Suitable extinguishing media : Wa	ater spray. Dry powder. Foam. Carbon dioxide.					
5.2. Special hazards arising from the substance	ce or mixture					
Hazardous decomposition products in case of : To fire	oxic fumes may be released.					
5.3. Advice for firefighters						
	o not attempt to take action without suitable protective equipment. Self-contained breathing paratus. Complete protective clothing.					
SECTION 6: Accidental release measures	5					
6.1. Personal precautions, protective equipme	ent and emergency procedures					
6.1.1. For non-emergency personnel						
Emergency procedures : Ve	entilate spillage area. Avoid breathing mist, spray, vapours.					
6.1.2. For emergency responders						
Protective equipment : Do	o not attempt to take action without suitable protective equipment. For further information fer to section 8: "Exposure controls/personal protection".					
6.2. Environmental precautions						
Avoid release to the environment.	Avoid release to the environment.					
6.3. Methods and material for containment and	d cleaning up					
Methods for cleaning up : Ta	ike up liquid spill into absorbent material.					
Other information : Dis	spose of materials or solid residues at an authorized site.					
6.4. Reference to other sections						
For further information refer to section 13.	For further information refer to section 13.					

Safety Data Sheet

according to Regulation (EU) 2015/830

SECTION 7: Handling and storage						
7.1. Precautions for safe handling						
Precauti	ons for safe handling	 Ensure good ventilation of the work station. Wear personal protective equipment. Avoid breathing mist, spray, vapours. 				
Hygiene	measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.				
7.2. Conditions for safe storage, includin		ig any incompatibilities				
Storage	conditions	: Store in a well-ventilated place. Keep cool.				
7.3.	Specific end use(s)					

No additional information available

SECTION 8: Exposure controls/personal protection

8.1.	Control	nevenetere
0.1.	Control	parameters

T. Control parameters						
sodium azide (26628-22-8)						
EU	Local name	Sodium azide				
EU	IOELV TWA (mg/m ³)	0.1 mg/m³				
EU	IOELV STEL (mg/m ³)	0.3 mg/m ³				
EU	Notes	Skin				
EU	Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC				
	•	•				

8.2. **Exposure controls**

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Protective gloves

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

Eye protection:

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

Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

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



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and chemical properties			
Physical state	: Liquid		
Colour	: No data available		
Odour	: No data available		
15/03/2018	EN (English)	10/29	

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according to Regulation (EU) 2015/830

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

9.2. Other information

No additional information available

SECT	SECTION 10: Stability and reactivity				
10.1.	Reactivity				
The pro	oduct is non-reactive under normal conditions of use, storage and transport.				
10.2.	Chemical stability				
Stable	Stable under normal conditions.				
10.3.	Possibility of hazardous reactions				

Contact with acids liberates very toxic gas.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Acids.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information				
11.1. Information on toxicological effects				
Acute toxicity (oral)	: Not classified			
Acute toxicity (dermal)	: Not classified			
Acute toxicity (inhalation)	: Not classified			
Skin corrosion/irritation	: Not classified			
Serious eye damage/irritation	: Not classified			
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.			
Germ cell mutagenicity	: Not classified			
Carcinogenicity	: Not classified			
Reproductive toxicity	: Not classified			
STOT-single exposure	: Not classified			
č				
STOT-repeated exposure	: Not classified			
Aspiration hazard	: Not classified			

Safety Data Sheet

according to Regulation (EU) 2015/830

cording to Regulation (EU) 2015/830	
SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessmer	nt
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	S
13.1. Waste treatment methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / AD	N .
ADR	ΙΑΤΑ
14.1. UN number	
Not applicable	Not applicable
14.2. UN proper shipping name	
Not applicable	Not applicable
14.3. Transport hazard class(es)	
Not applicable	Not applicable
14.4. Packing group	
Not applicable	Not applicable
14.5. Environmental hazards	
Not applicable	Not applicable
	No supplementary information available
14.6. Special precautions for user	
- Overland transport	
Not applicable	
Air transport	

Not applicable

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

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

15.1.2. National regulations

No additional information available

Safety Data Sheet

according to Regulation (EU) 2015/830

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Resp. Sens. 1	Respiratory sensitisation, Category 1
H300	Fatal if swallowed.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH032	Contact with acids liberates very toxic gas.

SDS EU (REACH Annex II)

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



Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 28/11/2013 Revision date: 29/01/2018 Supersedes: 06/09/2016 Version: 1.3 SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. **Product identifier** Product form : Mixture Product name : Glycerol Assay Kit (Bottle 3) Product code : K-GCROL (Bottle 3) 1.2. Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses 1.2.1. : Professional use Main use category Use of the substance/mixture : Use as laboratory reagent 1.2.2. Uses advised against No additional information available Details of the supplier of the safety data sheet 1.3. Manufacturer Megazyme Bray Business Park A98 YV29 Bray - Ireland T +353 12861220 - F +353 12861264 cs@megazyme.com - www.megazyme.com **Emergency telephone number** 1.4. : +353 12861220 [9 am to 5 pm GMT - Monday to Friday] Emergency number **SECTION 2: Hazards identification** 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified Adverse physicochemical, human health and environmental effects To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice Label elements 2.2. Labelling according to Regulation (EC) No. 1272/2008 [CLP] **EUH-statements** : EUH208 - Contains Dehydrogenase, lactate. May produce an allergic reaction. EUH210 - Safety data sheet available on request. EUH032 - Contact with acids liberates very toxic gas. Labelling according to: exemption for inner packaging where the contents do not exceed 10ml No labelling required 2.3. Other hazards No additional information available SECTION 3: Composition/information on ingredients 3.1. **Substances** Not applicable 3.2. **Mixtures**

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

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.
First-aid measures after skin contact	: Wash skin with plenty of water.
15/03/2018	EN (English) 14/29

Glycerol Assay Kit (Bottle 3) Safety Data Sheet

First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/effects after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
4.3. Indication of any immediate medica	Il attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the su	bstance or mixture
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release mea	sures
6.1. Personal precautions, protective ec	uipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapours/spray.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containme	ent and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	 Ensure good ventilation of the work station. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, includi	ng any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/pers	sonal protection
8.1. Control parameters	
No additional information available	

8.2. **Exposure controls**

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Protective gloves

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

Safety Data Sheet

according to Regulation (EU) 2015/830

Eye protection:

Safety glasses

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

Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. [In case of inadequate ventilation] wear respiratory protection.

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



Environmental exposure controls:

Avoid release to the environment.

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

SECTION 10: Stability and reactivity 10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

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according to Regulation (EU) 2015/830

10.3.	Possibility of hazardous reactions
Contact	with acids liberates very toxic gas.
10.4.	Conditions to avoid
None un	ider recommended storage and handling conditions (see section 7).
10.5.	Incompatible materials
Acids.	
10.6.	Hazardous decomposition products

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

SECTION 11: Toxicological inform	ation
11.1. Information on toxicological effect	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
SECTION 12: Ecological information	on
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assess	nent
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerati	ons
13.1. Waste treatment methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport informatio	
In accordance with ADR / RID / IMDG / IATA /	
ADR	ΙΑΤΑ
14.1. UN number	Natanglashia

Safety Data Sheet

according to Regulation (EU) 2015/830

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

14.6. Special precautions for user

- Overland transport

Not applicable

- Air transport

Not applicable

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

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

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:

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

SDS EU (REACH Annex II)

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



Glycerol Assay Kit (Bottle 2) Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 28/11/2013 Revision date: 23/11/2017

Megazyme	according to Regulation (EU) 2015/830 Date of issue: 28/11/2013 Revision date: 23/11/2017 Supersedes: 06/09/2016 Version: 1.3
	the substance/mixture and of the company/undertaking
1.1. Product identifier	1 Partone
Product form	: Mixture
Product name Product code	: Glycerol Assay Kit (Bottle 2)
Product code	: K-GCROL (Bottle 2)
1.2. Relevant identified uses of	f the substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Professional use
Use of the substance/mixture	: Use as laboratory reagent
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the	he safety data sheet
Manufacturer Megazyme Bray Business Park A98 YV29 Bray - Ireland T +353 12861220 - F +353 12861264 cs@megazyme.com - www.megazyme	e.com
1.4. Emergency telephone num	nber
Emergency number	: +353 12861220 [9 am to 5 pm GMT - Monday to Friday]
SECTION 2: Hazards identifie	cation
2.1. Classification of the subst	ance or mixture
Classification according to Regulati	ion (EC) No. 1272/2008 [CLP]
Acute toxicity (oral), Category 4	H302
Hazardous to the aquatic environment	t — H412
Chronic Hazard, Category 3	
Full text of H statements : see section	16
Adverse physicochemical, human h Harmful if swallowed. Harmful to aqual	
2.2. Label elements	
Labelling according to Regulation (I	EC) No. 1272/2008 [CLP]
Hazard pictograms (CLP)	GHS07
Signal word (CLP)	: Warning
Hazardous ingredients	: 3-cyclohexylaminopropane-1-sulphonic acid, CAPS buffer; sodium azide
Hazard statements (CLP)	: H302 - Harmful if swallowed.
Precautionary statements (CLP)	 H412 - Harmful to aquatic life with long lasting effects. P264 - Wash hands thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P273 - Avoid release to the environment. P301+P312 - IF SWALLOWED: Call a doctor, a POISON CENTER if you feel unwell. P330 - Rinse mouth. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
EUH-statements	: EUH032 - Contact with acids liberates very toxic gas.
Labelling according to: exemption f	for inner packaging where the contents do not exceed 10ml
Hazardous ingredients	: 3-cyclohexylaminopropane-1-sulphonic acid, CAPS buffer; sodium azide

Safety Data Sheet

according to Regulation (EU) 2015/830

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
3-cyclohexylaminopropane-1-sulphonic acid, CAPS buffer	(CAS-No.) 1135-40-6 (EC-No.) 214-492-1	20 - 30	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312
sodium azide	(CAS-No.) 26628-22-8 (EC-No.) 247-852-1 (EC Index-No.) 011-004-00-7	0.1 - 1	Acute Tox. 2 (Oral), H300 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

SECTION 4: First aid measures					
4.1. Description of first aid measures					
First-aid measures general : Call a poison center or a doctor if you feel unwell.					
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.					
irst-aid measures after skin contact : Wash skin with plenty of water.					
First-aid measures after eye contact	irst-aid measures after eye contact : Rinse eyes with water as a precaution.				
First-aid measures after ingestion	: Rinse mouth. Call a poison center or a doctor if you feel unwell.				
4.2. Most important symptoms and eff	ects, both acute and delayed				
No additional information available					
4.3. Indication of any immediate media	cal attention and special treatment needed				
Treat symptomatically.					
SECTION 5: Firefighting measures					
5.1. Extinguishing media					
Suitable extinguishing media	: Water spray. Dry powder. Foam.				
5.2. Special hazards arising from the s	substance or mixture				
Hazardous decomposition products in case of fire	: Toxic fumes may be released.				
5.3. Advice for firefighters					
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.				
SECTION 6: Accidental release me	asures				
6.1. Personal precautions, protective	equipment and emergency procedures				
6.1.1. For non-emergency personnel					
Emergency procedures	: Ventilate spillage area.				
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 contain	nent and cleaning up				
Methods for cleaning up	: Mechanically recover the product.				
Other information	: Dispose of materials or solid residues at an authorized site.				
6.4. Reference to other sections					
For further information refer to section 13.					

Safety Data Sheet

according to Regulation (EU) 2015/830

SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment.		
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.		
7.2. Conditions for safe storage, including any incompatibilities			
Storage conditions	: Store in a well-ventilated place. Keep cool.		

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

sodium azide (26628-22-8)				
EU	Local name	Sodium azide		
EU	IOELV TWA (mg/m ³)	0.1 mg/m ³		
EU	IOELV STEL (mg/m ³)	0.3 mg/m ³		
EU	Notes	Skin		
EU	Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC		

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Protective gloves

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

Eye protection:

Safety glasses

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

Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment



Environmental exposure controls:

Avoid release to the environment.

pH	: No data available	
Odour Odour threshold	: No data available : No data available	
Colour	: No data available	
Physical state	: Solid	
9.1. Information on basic physical a	nd chemical properties	

Safety Data Sheet

according to Regulation (EU) 2015/830

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

9.2. Other information

No additional information available

SECT	ON 10: Stability and reactivity				
10.1.	Reactivity				
The pro	The product is non-reactive under normal conditions of use, storage and transport.				
10.2.	Chemical stability				
Stable u	inder normal conditions.				
10.3.	Possibility of hazardous reactions				
Contact	Contact with acids liberates very toxic gas.				
10.4.	Conditions to avoid				
None ur	nder recommended storage and handling conditions (see section 7).				
10.5.	Incompatible materials				
Acids.					
10.6.	Hazardous decomposition products				

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

1.1. Information on toxicological e	fects	
cute toxicity (oral)	: Oral: Harmful if swallowed.	
cute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation) : Not classified		
ATE CLP (oral)	754.9448890231 mg/kg bodyweight	
kin corrosion/irritation	: Not classified	
erious eye damage/irritation	: Not classified	
espiratory or skin sensitisation	: Not classified	
Serm cell mutagenicity	: Not classified	
arcinogenicity	: Not classified	
eproductive toxicity	: Not classified	
TOT-single exposure	: Not classified	
TOT-repeated exposure	: Not classified	
spiration hazard	: Not classified	

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general	: Harmful to aquatic life with long lasting effects. Harmful to aquatic life.	

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Acute a	aquatic toxicity	: Not classifie	ed
Chronic	c aquatic toxicity	: Harmful to a	aquatic life with long lasting effects.
12.2.	Persistence and degradability		
No add	litional information available		
2.3.	Bioaccumulative potential		
No add	litional information available		
12.4.	Mobility in soil		
	litional information available		
12.5.	Results of PBT and vPvB asses litional information available	sment	
vo add			
12.6.	Other adverse effects		
lo add	litional information available		
SECT	ION 13: Disposal considera	tions	
0.4			
13.1.	Waste treatment methods		
	Waste treatment methods treatment methods	: Dispose of	contents/container in accordance with licensed collector's sorting instructions.
Vaste	treatment methods	•	contents/container in accordance with licensed collector's sorting instructions.
Waste SECT	treatment methods	on	contents/container in accordance with licensed collector's sorting instructions.
Vaste SECT n acco	treatment methods	on	
Waste SECT n acco	treatment methods FION 14: Transport informat ordance with ADR / RID / IMDG / IAT	on	contents/container in accordance with licensed collector's sorting instructions.
Vaste SECT n acco ADR 4.1.	treatment methods FION 14: Transport informat ordance with ADR / RID / IMDG / IAT. UN number	on	ΙΑΤΑ
Vaste SECT n acco ADR 4.1. Not app	treatment methods FION 14: Transport informat ordance with ADR / RID / IMDG / IAT. UN number plicable	on	
Vaste SECT n acco ADR 4.1. Not app 4.2.	treatment methods FION 14: Transport informat ordance with ADR / RID / IMDG / IAT. UN number	on	ΙΑΤΑ
Vaste SECT n acco ADR 4.1. Not app 4.2. Not app	treatment methods FION 14: Transport informat ordance with ADR / RID / IMDG / IAT. UN number plicable UN proper shipping name	on	IATA Not applicable
Vaste SECT n acco ADR 4.1. Not app 4.2. Not app 4.3.	treatment methods FION 14: Transport information ordance with ADR / RID / IMDG / IAT. UN number plicable UN proper shipping name plicable	on	IATA Not applicable
Vaste SECT n acco ADR 4.1. Not app 4.2. Not app 4.3. Not app 4.4.	treatment methods TION 14: Transport informat ordance with ADR / RID / IMDG / IAT. UN number plicable UN proper shipping name plicable Transport hazard class(es) plicable Packing group	on	IATA Not applicable Not applicable Not applicable
Vaste SECT n acco ADR [4.1. Not app [4.2. Not app [4.3. Not app [4.4. Not app	treatment methods TION 14: Transport informat ordance with ADR / RID / IMDG / IAT. UN number plicable UN proper shipping name plicable Transport hazard class(es) plicable Packing group plicable	on	IATA Not applicable Not applicable
Waste SECT n acco ADR 14.1. Not app 14.2. Not app 14.3. Not app 14.4. Not app 14.5.	treatment methods	on	IATA Not applicable Not applicable Not applicable Not applicable
SECT n acco ADR 14.1. Not app 14.3. Not app 14.4. Not app 14.5.	treatment methods TION 14: Transport informat ordance with ADR / RID / IMDG / IAT. UN number plicable UN proper shipping name plicable Transport hazard class(es) plicable Packing group plicable	on A / ADN	IATA Not applicable Not applicable Not applicable

- Overland transport

Not applicable

- Air transport

Not applicable

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

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

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Safety Data Sheet

according to Regulation (EU) 2015/830

Full text of H- and EUH-statem	ents:		
Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2		
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4		
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1		
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1		
H300	Fatal if swallowed.		
H302	Harmful if swallowed.		
H312	Harmful in contact with skin.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		
H412	Harmful to aquatic life with long lasting effects.		
EUH032	Contact with acids liberates very toxic gas.		

SDS EU (REACH Annex II)

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



Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 28/11/2013 Revision date: 08/

Revision date: 08/12/2017 Supersedes: 06/09/2016 Version: 1.3 SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. **Product identifier** Product form : Mixture Product name : Glycerol Assay Kit (Bottle 1) Product code : K-GCROL (Bottle 1) 1.2. Relevant identified uses of the substance or mixture and uses advised against **Relevant identified uses** 1.2.1. Industrial/Professional use spec : For professional use only Use of the substance/mixture : Use as laboratory reagent 1.2.2. Uses advised against No additional information available Details of the supplier of the safety data sheet 1.3. Megazyme Bray Business Park A98 YV29 Bray - Ireland T +353 12861220 - F +353 12861264 cs@megazyme.com - www.megazyme.com 1.4. **Emergency telephone number** Emergency number : +353 12861220 [9 am to 5 pm GMT - Monday to Friday] **SECTION 2: Hazards identification** 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified Adverse physicochemical, human health and environmental effects To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice. 2.2. **Label elements** Labelling according to Regulation (EC) No. 1272/2008 [CLP] **EUH-statements** : EUH032 - Contact with acids liberates very toxic gas. Labelling according to: exemption for inner packaging where the contents do not exceed 10ml No labelling required **Other hazards** 2.3. No additional information available SECTION 3: Composition/information on ingredients 3.1. Substances Not applicable 3.2. **Mixtures** This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.	
First-aid measures after skin contact	: Wash skin with plenty of water.	
First-aid measures after eye contact	: Rinse eyes with water as a precaution.	
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.	
4.2. Most important symptoms and effects, both acute and delayed		
No additional information available		

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4.3. Indication of any immediate medical attention and special treatment needed			
Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.		
5.2. Special hazards arising from the s	ubstance or mixture		
Hazardous decomposition products in case of fire	: Toxic fumes may be released.		
5.3. Advice for firefighters			
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		
SECTION 6: Accidental release me	asures		
6.1. Personal precautions, protective e	equipment and emergency procedures		
6.1.1. For non-emergency personnel			
Emergency procedures	: Ventilate spillage area.		
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 containing	nent and cleaning up		
Methods for cleaning up	: Take up liquid spill into absorbent material.		
Other information	: Dispose of materials or solid residues at an authorized site.		
6.4. Reference to other sections			
For further information refer to section 13.			
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment.		
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.		
7.2. Conditions for safe storage, include	ling any incompatibilities		
Storage conditions	: Store in a well-ventilated place. Keep cool.		
7.3. Specific end use(s)			
No additional information available			
SECTION 8: Exposure controls/per	sonal protection		
8.1. Control parameters			
No additional information available			
8.2. Exposure controls			
Appropriate engineering controls:			
Ensure good ventilation of the work station.			

Hand protection:

Protective gloves

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

Eye protection:

Safety glasses

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

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Skin and body protection:

Wear suitable protective clothing

Туре	Standard
Lab coat	

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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



Environmental exposure controls:

Avoid release to the environment.

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

SECTION 10: Stability and reactivity		
10.1.	Reactivity	
The pro	duct is non-reactive under normal conditions of use, storage and transport.	
10.2.	Chemical stability	
Stable under normal conditions.		
10.3.	Possibility of hazardous reactions	

Contact with acids liberates very toxic gas.

10.4. Conditions to avoid

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

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10.5.	Incompatible materials
Acids.	
40.0	Llemendeux, des envire efféres preducetes

10.6. Hazardous decomposition products

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

SECTION 11: Toxicolo	ogical information
11.1. Information on top	xicological 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	n : Not classified
Respiratory or skin sensitisat	ion : Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general : The product is not considered ha effects in the environment.	rmful to aquatic organisms nor to cause long-term adverse
Acute aquatic toxicity : Not classified	
Chronic aquatic toxicity : Not classified	
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods : Dispose of contents/container in	accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / ADN	
ADR IATA	
14.1. UN number	
Not applicable Not applic	able
14.2. UN proper shipping name	
Not applicable Not applic	able
Not applicable Not applic 14.3. Transport hazard class(es)	able

Not applicable

Not applicable

Environmental hazards

14.4. Packing group

Not applicable

Not applicable

14.5.

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ADR	IATA
	No supplementary information available
14.6.	Special precautions for user
- Overlaı	nd transport
Not appli	cable
- Air trar	Isport
Not appli	cable
14.7.	Transport in bulk according to Annex II of Marpol and the IBC Code
Not appli	cable
SECTI	ON 15: Regulatory information
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
15.1.1.	EU-Regulations
Contains	no REACH substances with Annex XVII restrictions
Contains	no substance on the REACH candidate list
Contains	no REACH Annex XIV substances
15.1.2.	National regulations
No additi	ional information available
15.2.	Chemical safety assessment
No chem	ical safety assessment has been carried out

Full text of H- and EUH-statements:

EUH032	Contact with acids liberates very toxic gas.

SDS EU (REACH Annex II)

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