

Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 04/06/2013 Revision date: 11/10/2017

Supersedes: 09/03/2017

Version: 1.3

SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifier** 1.1. Product form : Mixture Product name : Glucose Determination Reagent Product code : R-GLC4 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. **Relevant identified uses** : For professional use only Industrial/Professional use spec 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** Classification of the substance or mixture 2.1. Classification according to Regulation (EC) No. 1272/2008 [CLP] Skin corrosion/irritation, Category 2 H315 Serious eye damage/eye irritation, Category H319

2

Respiratory sensitisation, Category 1 H334

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

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

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

	GHS08
Signal word (CLP)	: Danger
Hazardous ingredients	: HORSERADISH PEROXIDASE; GLUCOSE OXIDASE
Hazard statements (CLP)	: H315 - Causes skin irritation. H319 - Causes serious eye irritation H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary statements (CLP)	 P261 - Avoid breathing dust. P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves, protective clothing, eye protection P284 - [In case of inadequate ventilation] wear respiratory protection. P302+P352 - IF ON SKIN: Wash with plenty of water. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Safety Data Sheet

according to Regulation (EU) 2015/830

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

Hazard pictograms (CLP)



Hazardous ingredients

: HORSERADISH PEROXIDASE; GLUCOSE OXIDASE

2.3. Other hazards

No additional information available

SECT	SECTION 3: Composition/information on ingredients			
3.1.	Substances			
Not ap	plicable			
0.0	Madana			
3.2.	Mixtures			
Name	9	Product identifier	%	Classification according to

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
GLUCOSE OXIDASE	(CAS-No.) 9001-37-0 (EC-No.) 232-601-0	10 - 20	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Resp. Sens. 1, H334
4-Aminoantipyrine	(CAS-No.) 83-07-8 (EC-No.) 201-452-3	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 (EC-No.) 232-668-6	1 - 5	Resp. Sens. 1, H334

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measure	25
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. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/effects after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.
4.3. Indication of any immediate me	edical attention and special treatment needed

Treat symptomatically.

SECT	FION 5: Firefighting measures	
5.1.	Extinguishing media	
Suitabl	e extinguishing media	: Water spray. Dry powder. Foam.
5.2.	Special hazards arising from the su	ibstance or mixture
Hazard fire	lous decomposition products in case of	: Toxic fumes may be released.
5.3.	Advice for firefighters	
Protect	tion during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

Glucose Determination Reagent Safety Data Sheet

according to Regulation (EU) 2015/830

according to Regulation (EU) 2015/830							
SECTION 6: Accidental release measures							
6.1. Personal precautions, protective equipment and emergency procedures							
6.1.1. For non-eme	ergency perso	nnel					
Emergency procedures	Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.			g			
6.1.2. For emerger	icy responders	s					
Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".				further information			
6.2. Environmen	tal precautions	S					
Avoid release to the en	vironment.						
6.3. Methods and	d material for o	containme	nt and cleaning up				
Methods for cleaning up	C		: Mechanically recover	•			
Other information			: Dispose of materials	or solid residues at an au	ithorized site.		
	other section						
For further information		-					
SECTION 7: Hand							
7.1. Precautions Precautions for safe ha	for safe handl	ling	· Enquiro good ventilati	on of the work station. Av	oid contact w	ith akin and	ovoa Weer persenal
Frecautions for sale ha	nuing			Avoid breathing dust/fur			
Hygiene measures				clothing before reuse. Do after handling the product		or smoke w	hen using this product.
7.2. Conditions f	or safe storag	je, includin	ig any incompatibilities				
Storage conditions			: Store in a well-ventila	ted place. Keep cool.			
7.3. Specific end	use(s)						
No additional information	on available						
SECTION 8: Expo	sure contro	ols/perso	onal protection				
8.1. Control para	meters						
No additional information	on available						
8.2. Exposure co	ontrols						
Appropriate engineer	ng controls:						
Ensure good ventilatior	of the work sta	ation.					
Hand protection:							
•							
Protective gloves							
Туре	Material		Permeation	Thickness (mm)	Penetratio	n	Standard
Disposable gloves	Nitrile rubber	· (NBR)	3 (> 60 minutes)				EN 374-2
Eye protection:							
Safety glasses							
Туре	l	Use		Characteristics		Standard	
Safety glasses	[Droplet	With side shields EN 166				
Skin and body protection:							
Wear suitable protective clothing							
Type Standard							
Lab coat							
Respiratory protection:							
[In case of inadequate ventilation] wear respiratory protection.							
Device		Filter type	<u>,</u>	Condition Standard			
Dust mask		Type P1		Dust protection EN 143, EN 14		N 149	

Safety Data Sheet

according to Regulation (EU) 2015/830



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and		
Physical state	: Solid	
Colour	: white.	
Odour	: None.	
Odour threshold	: No data available	
рН	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: Not applicable	
Boiling point	: No data available	
Flash point	: Not applicable	
Auto-ignition temperature	: Not applicable	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Non flammable.	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: Not applicable	
Solubility	: Soluble in water.	
Log Pow	: No data available	
Viscosity, kinematic	: Not applicable	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	
Explosive limits	: Not applicable	
9.2. Other information		
No additional information available		
SECTION 10: Stability and reactivity		
10.1. Reactivity		
The product is non-reactive under normal condi	tions of use, storage and transport.	
10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous reactions		
No dangerous reactions known under normal co	onditions of use.	
10.4. Conditions to avoid		
None under recommended storage and handlin	a conditions (see section 7)	
10.5. Incompatible materials		
No additional information available		
10.6. Hazardous decomposition products		
Under normal conditions of storage and use, hazardous decomposition products should not be produced.		
SECTION 11: Toxicological informa		
11.1. Information on toxicological effects		
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	

Acute toxicity (inhalation)

: Not classified

Safety Data Sheet

according to Regulation (EU) 2015/830

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 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
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information	1
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			
4-Aminoantipyrine (83-07-8)			
Persistence and degradability	Biodegradability in water: no data available.		
12.3. Bioaccumulative potential			
4-Aminoantipyrine (83-07-8)			
Log Pow	-0.07 (estimated value)		
Bioaccumulative potential	Bioaccumulation unlikely.		
12.4. Mobility in soil			
No additional information available			
12.5. Results of PBT and vPvB assessment	t		
No additional information available			
12.6. Other adverse effects			
No additional information available			
SECTION 13: Disposal considerations	\$		
13.1. Waste treatment methods			
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.		
SECTION 14: Transport information			
In accordance with ADR / RID / IMDG / IATA / ADI	N		
ADR	ΙΑΤΑ		
14.1. UN number			
Not applicable	Not applicable		
14.2. UN proper shipping name			
Not applicable	Not applicable		

Not applicable

Not applicable

Not applicable

No supplementary information available

14.3.

Not applicable

Not applicable 14.5. Envi

Not applicable

Transport hazard class(es)

Environmental hazards

Packing group

Safety Data Sheet

according to Regulation (EU) 2015/830

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:

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

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.