GK2037 v2.0



### Safety Data Sheet

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#### According to REACH Regulations (EC) 1907/2006 and (EU) 2020/878

#### Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

1.

Product code	: GK2037
Product name	: Cyclophosphamide monohydrate
CAS number	: 6055-19-2
EINECS	: 200-015-4
Physical form	: solid, substance
REACH	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

PC21: Laboratory chemicals.

#### 1.3 Details of the supplier of the safety data sheet

Company name	:	Glentham Life Sciences Ltd	Telephone	:	+44 (0) 1225 667 798
		Unit 5 Leafield Way	Fax	:	+44 (0) 2033 978 909
		Corsham SN13 9SW	Email	:	info@glentham.com
		United Kingdom	Web	:	www.glentham.com

#### 1.4 Emergency telephone number

Emergency telephone : NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours), +44 (0) 1225 667 798 (09.00 – 17.00 GMT) number

#### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

Classification under CLP according to (EC) 1272/2008

H301	Acute Tox. 3
H350	Carc. 1B

#### 2.2 Label elements

Label elements under CLP according to (EC) 1272/2008

Pictograms



Signal words	Danger
Hazard statements	
H301	Toxic if swallowed
H350	May cause cancer
Precautionary staten	nents
P201	Obtain special instructions before use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/
P308+P313	IF exposed or concerned: Get medical advice/attention.
P264	Do not breathe fume.
Other hazards	

#### РВТ

2.3

This substance is not identified as a PBT substance.

#### 3.0 Composition/information on ingredients

#### 3.1 Substances

**4.** 4.1

4.2

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Name		Identifier	%	Classification		
Cyclophosphamide monohydrate		CAS: 6055-19-2 EC: 200-015-4 REACH: Not applicable	98.0%	H301, Acute Tox. 3 H350, Carc. 1B		
irst aid measures	;					
Description of firs	t aid measures					
Skin contact	Remove all contam	Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Remove all contaminated clothes and footwear immediately unless stuck to skin. Transfer to hospital if there are burns or symptoms of poisoning.				
Eye contact	Transfer to hospital	Transfer to hospital for specialist examination. Bathe the eye with running water for 15 minutes.				
Ingestion	breathing is OK, pla	Do not induce vomiting. If conscious, give half a litre of water to drink immediately. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. Transfer to hospital as soon as possible. Wash out mouth with water.				
Inhalation	If breathing becomes bubbly, have the casualty sit and provide oxygen if available. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. Remove casualty from exposure ensuring one's own safety whilst doing so. Transfer to hospital as soon as possible.					
Aost important sy	mptoms and effects, bot	h acute and delayed				
Skin contact	Absorption through the skin may be fatal. Irritation or pain may occur at the site of contact. There n be redness or whiteness of the skin in the area of exposure.					

Eye contact	The eyes may water profusely. There may be severe pain.
Ingestion	Convulsions may occur. There may be loss of consciousness. There may be soreness and redness of the mouth and throat. There may be vomiting.
Inhalation	Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. There may be loss of consciousness. There may be shortness of breath with a burning sensation in the throat. There may be vomiting.
Delayed / immediate effects	Convulsions may occur. Immediate effects can be expected after short-term exposure. There may be loss of consciousness.

#### 4.3 Indication of any immediate medical attention and special treatment needed

#### Immediate / special treatment

Do not induce vomiting. Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

#### 5. Fire-fighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

#### 5.2 Special hazards arising from the substance or mixture

#### Exposure hazards

In combustion emits toxic fumes. Toxic.

#### 5.3 Advice for fire-fighters

Wear protective clothing to prevent contact with skin and eyes. Wear self-contained breathing apparatus.

#### 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures Personal precautions

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Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Do not create dust. Evacuate the area immediately. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Notify the police and fire brigade immediately.

#### 6.2 Environmental precautions

Alert the neighbourhood to the presence of fumes or gas. Do not discharge into drains or rivers.

#### 6.3 Methods and material for containment and cleaning up

#### Clean-up procedures

Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

#### 6.4 Reference to other sections

Refer to section 8 of SDS.

#### 7. Handling and storage

#### 7.1 Precautions for safe handling

#### Handling requirements

Avoid direct contact with the substance. Avoid the formation or spread of dust in the air. Ensure there is exhaust ventilation of the area.

#### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Avoid contact with water or humidity. Keep container tightly closed. Store in cool, well ventilated area.

#### 7.3 Specific end use(s)

No data available.

#### 8. Exposure controls/personal protection

#### 8.1 Control parameters

#### Workplace exposure limits

No workplace exposure limit control parameters set

#### 8.2 Exposure controls

Engineering measures	Ensure there is exhaust ventilation of the area.
Respiratory protection	Particle filter class P1 (EN143). Respiratory protective device with particle filter. Self- contained breathing apparatus must be available in case of emergency.
Hand protection	Protective gloves.
Eye protection	Ensure eye bath is to hand. Safety glasses with side-shields.
Skin protection	Protective clothing.

#### 9. Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Physical state	Solid
Colour	White
Odour	No data available.
Melting point/Freezing point	41-45 °C
Boiling point/initial boiling point/boiling range	No data available.
Flammability	No data available.
Lower/Upper explosion limit	No data available.
Flash Point	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
рН	No data available.
Kinematic viscosity	No data available.
Solubility	No data available.
Partition coefficient n-octanol/water	No data available.
Vapour pressure	No data available.

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Density/relative density Relative vapour pressure Particle characteristics

#### 9.2 Other information

No data available.

#### **10.** Stability and reactivity

#### 10.1 Reactivity

Stable under recommended transport or storage conditions.

#### <sup>10.2</sup> Chemical stability

Stable under normal conditions.

#### <sup>10.3</sup> Possibility of hazardous reactions

#### Hazardous reactions

Decomposition may occur on exposure to conditions or materials listed below. Hazardous reactions will not occur under normal transport or storage conditions.

No data available. No data available.

No data available.

#### <sup>10.4</sup> Conditions to avoid

Flames. Hot surfaces. Heat.

#### Incompatible materials

Materials to avoid

10.5

Strong acids. Strong oxidising agents.

#### **11.** Toxicological information

#### 11.1 Information on toxicological effects

- a) Acute toxicity No data available.
- b) Skin corrosion/irritation No data available.
- c) Serious eye damage/irritation No data available.
- d) Respiratory or skin sensitisation No data available.
- e) Germ cell mutagenicity No data available.
- f) Carcinogenicity Carcinogenicity (Category 1B)
- g) Reproductive toxicity No data available.
- h) STOT-single exposure No data available.
- i) STOT-repeated exposure No data available.

### J) Aspiration hazardNo data available.

#### 11.2 Symptoms / routes of exposure

Skin contact	Absorption through the skin may be fatal. Irritation or pain may occur at the site of contact. There may be redness or whiteness of the skin in the area of exposure.

Eye contact

The eyes may water profusely. There may be severe pain.

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Ingestion	Convulsions may occur. There may be loss of consciousness. There may be soreness and redness of the mouth and throat. There may be vomiting.
Inhalation	Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. There may be loss of consciousness. There may be shortness of breath with a burning sensation in the throat. There may be vomiting.
Delayed / immediate effects	Convulsions may occur. Immediate effects can be expected after short-term exposure. There may be loss of consciousness.
Other information	No data available.
Ecological information	on
Toxicity	
No data available.	
Persistence and deg	radability
Biodegradable.	
Bioaccumulative pot	ential
No bioaccumulation	potential.
Mobility in soil	
Readily absorbed inte	o soil.
Results of PBT and v	/PvB assessment
This substance is not	identified as a PBT substance.
Endocrine disrupting	g properties
This substance is not	t identified as having endocrine disrupting properties
Other adverse effect	S
No data available.	
Disposal considerati	ons
Waste treatment met	hods
Disposal operations	
Transfer to a suitable	container and arrange for collection by specialised disposal company.

Transfer to a suitable container and arrange for collection by specialised disposal company.

NB

The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

#### 14. Transport information

ADR	IMDG	ΙΑΤΑ	ADN	RID		
14.1. UN number						
UN3464	UN3464	UN3464	UN3464	UN3464		
14.2. UN proper shipping name						
ORGANOPHOSPHO RUS COMPOUND, TOXIC, SOLID, N.O.S.	ORGANOPHOSPHO RUS COMPOUND, TOXIC, SOLID, N.O.S.	Organophosphorus compound, toxic, solid, n.o.s.	ORGANOPHOSPHO RUS COMPOUND, TOXIC, SOLID, N.O.S.	ORGANOPHOSPHO RUS COMPOUND, TOXIC, SOLID, N.O.S.		

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Transport de compart de corie	dia			
Transport document descrip	otion			
UN3464 ORGANOP HOSPHORUS COMPOUND, TOXIC, SOLID, N.O.S. (CYCLOPHO SPHAMIDE MONOHYDRATE), 6.1, III	UN3464 ORGANOP HOSPHORUS COMPOUND, TOXIC, SOLID, N.O.S. (CYCLOPHO SPHAMIDE MONOHYDRATE), 6.1, III	UN3464 Organophosphorus compound, toxic, solid, n.o.s. (Cyclophosphamide monohydrate), 6.1, III	UN3464 ORGANOP HOSPHORUS COMPOUND, TOXIC, SOLID, N.O.S. (CYCLOPHO SPHAMIDE MONOHYDRATE), 6.1, III	UN3464 ORGANOP HOSPHORUS COMPOUND, TOXIC, SOLID, N.O.S. (CYCLOPHO SPHAMIDE MONOHYDRATE), 6.1, III
14.3. Transport hazard class	(es)			
6.1	6.1	6.1	6.1	6.1
6	() •	6	6	6
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards	i			
No	No	No	No	No

#### 15. Regulatory information

15.1

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This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/787.

Authorisations/Restrictions

Regulation (EC) 1907/2006, REACH, Annex XIV list of substances subject to authorisation:
No data available.

Regulation (EC) 1907/2006, REACH, Annex XVII restrictions on the manufacture, placing on the market and use of certain dangerous substances:
No data available.

Regulation (EC) 1005/2009 on substances that deplete the ozone layer:
No data available.

Regulation (EC) 850/2004 on persistent organic pollutants, amended by (EU) No 2019/1021:
No data available.
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Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

#### 16. Other information

H-Statement Full Texts	
H301	Toxic if swallowed
H350	May cause cancer
Abbreviations Full Texts	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ALARP	As low as is reasonably practicable
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging Regulations
COSHH	Control of Substances Hazardous to Health
EC Number	European Community Number

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EC50 EILINCS EINECS GHS HSE IATA IM IMDG IP IV LD50 LOEC LTEL NOEC OECD PBT PPE REACH RID SC SDS STEL	Effective Concentration 50% European List of Notified Chemical Substances European Inventory of Existing Commercial Chemical Substances Globally Harmonised System Health & Safety Executive UK International Air Transport Association Intramuscular The International Maritime Dangerous Goods Code Intraperitoneal Intravascular Lethal Dose 50% Lowest Observable Effective Concentration Long Term Exposure Limit No Observable Effective Concentration Organisation for Economic Cooperations and Development Persistent Bioaccumulative Toxic Personal Protective Equipment Registration, Evaluation, Authorisation and Restriction of Chemicals Regulations Concerning the International Carriage of Dangerous Goods by Rail Subcutaneous Safety Data Sheet Short Term Exposure Limit
STEL	Short Term Exposure Limit
VOC vPvB	
WEL	Workplace Exposure Limits
RID SC SDS STEL VOC vPvB	Regulations Concerning the International Carriage of Dangerous Goods by Rai Subcutaneous Safety Data Sheet Short Term Exposure Limit Volatile Organic Compounds Very Persistent and Very Bioaccumulative

#### This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/787.

Disclaimer: Glentham Life Sciences shall not be held liable for any damage resulting from handling or from contact with the above product. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This document does not guarantee the properties or quality of the product.