

Safety Data Sheet

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

Identification of the substance/mixture a	and of the	company/undortaking
identification of the substance/mixture a	and of the	company/undertaking

1.1 Product identifier

1.

Product code	: GK4217
Product name	: Pyruvic acid
CAS number	: 127-17-3
EINECS	: 204-824-3
Physical form	: liquid, 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

H314	Skin Corr. 1C
H318	Eve Dam, 1

2.2 Label elements

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

Pictograms



Signal words	Danger
Hazard statements	
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
Precautionary statements	
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P260	Do not breathe vapors.
P264	Do not breathe fume.
Other hazards	
PBT	

This substance is not identified as a PBT substance.

3.0 Composition/information on ingredients

3.1 Substances

2.3

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4. 4.1

4.2

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Name		Identifier	%	Classification		
Pyruvic acid		CAS: 127-17-3 EC: 204-824-3 REACH: Not applicable	98.0%	H314, Skin Corr. 1C H318, Eye Dam. 1		
irst aid measures						
Description of first	t aid measures					
Skin contact		ited clothes and footwear		longer if substance is still on skin. unless stuck to skin. Transfer to hospital		
Eye contact	Transfer to hospital fo	r specialist examination. I	Bathe the eye	with running water for 15 minutes.		
Ingestion	is OK, place in the rec	Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. 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	ensure the casualty si position. If unconsciou	ts or lies down. If unconso is, check for breathing an	cious and brea d apply artifici	de oxygen if available. If conscious, athing is OK, place in the recovery al respiration if necessary. Remove ng so. Transfer to hospital as soon as		
lost important sy	mptoms and effects, both a	cute and delayed				
Skin contact	Blistering may occur.	Progressive ulceration wil	l occur if treat	ment is not immediate.		
Eye contact	Corneal burns may oc	cur. May cause permane	nt damage.			
Ingestion	Blood may be vomited mouth or nose.	l. Corrosive burns may ap	pear around t	the lips. There may be bleeding from the		

Delayed / immediate effects Immediate effects can be expected after short-term exposure. There may be bleeding from the mouth or nose.

Exposure may cause coughing or wheezing. There may be shortness of breath with a burning

4.3 Indication of any immediate medical attention and special treatment needed

sensation in the throat.

Immediate / special treatment

Do not induce vomiting. Eye bathing equipment should be available on the premises.

5. Fire-fighting measures

5.1 Extinguishing media

Inhalation

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

Special hazards arising from the substance or mixture

Exposure hazards

Corrosive. In combustion emits toxic fumes.

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

Do not attempt to take action without suitable protective clothing - see section 8 of SDS. 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.

5.2

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6.2 Environmental precautions

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. Do not handle in a confined space. Ensure there is sufficient 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 sufficient ventilation of the area.
Respiratory protection	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. Tightly fitting safety goggles.
Skin protection	Protective clothing.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Colourless
Odour	No data available.
Melting point/Freezing point	13.8 °C
Boiling point/initial boiling point/boiling range	54 °C
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.
Density/relative density	1.223
Relative vapour pressure	No data available.
Particle characteristics	No data available.

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9.2	Other	information	

No data available.

10. Stability and reactivity

10.1 Reactivity

Stable under recommended transport or storage conditions.

10.2 Chemical stability

Stable under normal conditions.

^{10.3} 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.

^{10.4} Conditions to avoid

Heat.

^{10.5} Incompatible materials

Materials to avoid

Strong acids. Strong oxidising agents.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

a)

No data available.

- b) Skin corrosion/irritation
 Skin corrosion/irritation (Category 1C)
- c) Serious eye damage/irritation Serious eye damage/eye irritation (Category 1)
- d) Respiratory or skin sensitisation No data available.
- e) Germ cell mutagenicity No data available.
- f) Carcinogenicity
- No data available.
- 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	Blistering may occur. Progressive ulceration will occur if treatment is not immediate.
Eye contact	Corneal burns may occur. May cause permanent damage.
Ingestion	Blood may be vomited. Corrosive burns may appear around the lips. There may be bleeding from the mouth or nose.
Inhalation	Exposure may cause coughing or wheezing. There may be shortness of breath with a burning sensation in the throat.

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	or nose.	expected after short-term	exposure. There may be	bleeding from the mouth
Other information	No data available.			
Ecological information	n			
Toxicity				
No data available.				
Persistence and degr	adability			
Biodegradable.				
Bioaccumulative pote	ential			
No bioaccumulation p	otential.			
Mobility in soil				
Readily absorbed into	o soil.			
Results of PBT and v	PvB assessment			
This substance is not	identified as a PBT substan	ce.		
Endocrine disrupting	properties			
This substance is not	identified as having endocri	ne disrupting properties		
Other adverse effects	3			
No data available.				
Disposal consideration	ons			
Disposal consideration				
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14.3. Transport haz	ard class(es)				
8	8	8	8	8	
	1 1	A CONTRACTOR	B .	1	
14.4. Packing group	p				
II	II	II	II	II	
14.5. Environmenta	Il hazards				
No	No	No	No	No	

15. Regulatory information

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

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
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H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

Abbreviations Full Texts

A			
	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	
	EC50	Effective Concentration 50%	
	EILINCS	European List of Notified Chemical Substances	
	EINECS	European Inventory of Existing Commercial Chemical Substances	
	GHS	Globally Harmonised System	
	HSE	Health & Safety Executive UK	
	IATA	International Air Transport Association	
	IM	Intramuscular	
	IMDG	The International Maritime Dangerous Goods Code	
	IP	Intraperitoneal	
	IV	Intravascular	
	LD50	Lethal Dose 50%	
	LOEC	Lowest Observable Effective Concentration	
	LTEL	Long Term Exposure Limit	
	NOEC	No Observable Effective Concentration	
	OECD	Organisation for Economic Cooperations and Development	
	PBT	Persistent Bioaccumulative Toxic	
	PPE	Personal Protective Equipment	



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REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations Concerning the International Carriage of Dangerous Goods by Rail
SC	Subcutaneous
SDS	Safety Data Sheet
STEL	Short Term Exposure Limit
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
WEL	Workplace Exposure Limits

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

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