GC9491 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	: GC9491
Product name	: Lactic acid, 90% solution
CAS number	: 50-21-5
EINECS	: 200-018-0
Physical form	: liquid, mixture
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

H315	Skin Irr. 2
H318	Eye Dam. 1

2.2 Label elements

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

Pictograms



Signal words	Danger
Hazard statements	
H315	Causes skin irritation
H318	Causes serious eye damage
Precautionary statemer	nts
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
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.
P332+P313	IF SKIN irritation occurs: Get medical advice/attention.
P264	Do not breathe fume.
Other hazards	
PBT	
This substance is not ide	ntified as a PBT substance.

This substance is not identified as a PBT substance

3.0 Composition/information on ingredients

3.2 Mixtures

2.3

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4. 4.1

4.2

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Name		Identifier	%	Classification
Lactic acid		CAS: 50-21-5 EC: REACH: Not applicable	90	H314, Skin Corr. 1C H318, Eye Dam. 1
irst aid measures				
escription of first	aid measures			
Skin contact		clothes and footwear		or longer if substance is still on skin. / unless stuck to skin. Transfer to hospital
Eye contact	Transfer to hospital for sp	ecialist examination.	Bathe the ey	e with running water for 15 minutes.
Ingestion	is OK, place in the recove	ry position. If uncons	cious, check	0 minutes. If unconscious and breathing for breathing and apply artificial ssible. Wash out mouth with water.
Inhalation	ensure the casualty sits of position. If unconscious, c	lies down. If uncons heck for breathing ar	cious and brond apply artifi	vide oxygen if available. If conscious, eathing is OK, place in the recovery cial respiration if necessary. Remove ing so. Transfer to hospital as soon as
lost important syı	mptoms and effects, both acute	e and delayed		
Skin contact	Blistering may occur. Prog	pressive ulceration wi	ll occur if trea	atment 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.
Delayed / immediate effects	Immediate effects can be expected after short-term exposure. There may be bleeding from the mouth or nose.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate / special treatment

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

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

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.

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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	16.8 °C
Boiling point/initial boiling point/boiling range	122 °C @ Press: 14-15 Torr
Flammability	No data available.
Lower/Upper explosion limit	No data available.
Flash Point	No data available.
Auto-ignition temperature	400°C
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	1.249
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 2)
- 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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Delayed / immediate effects	Immediate effects can be expected after short-term exposure. There may be bleeding from the mou or nose.
Other information	No data available.
Ecological information	ion
Toxicity	
No data available.	
Persistence and deg	gradability
Biodegradable.	
Bioaccumulative po	tential
No bioaccumulation	potential.
Mobility in soil	
Readily absorbed in	to soil.
Results of PBT and	vPvB assessment
	ot identified as a PBT substance.
Endocrine disruptin	g properties
•	t identified as having endocrine disrupting properties
Other adverse effect	
No data available.	
Disposal considerat	ions
Waste treatment me	thods
Disposal operations	
Transfer to a suitable	e 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.
Transport information	on
This product does no	ot require a classification for transport.
Regulatory informat	
-	nmental regulations/legislation specific for the substance or mixture
Regulation (EU) 202	eet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission 0/787.
Authorisations/Restrictio	ns
Regulation (EC) 1 authorisation:	1907/2006, REACH, Annex XIV list of substances subject to No data available.
• • • •	I907/2006, REACH, Annex XVII restrictions on the manufacture, placing No data available. d use of certain dangerous substances:
• • • •	1005/2009 on substances that deplete the ozone layer: No data available.
Regulation (EC) 8 2019/1021:	350/2004 on persistent organic pollutants, amended by (EU) No No data available.
Chemical safety assessm	nent .
A chemical safety as	ssessment has not been carried out for the substance or the mixture by the supplier.
Other information	
H-Statement Full Te	
	Causes severe skin burns and eye damage Causes serious eye damage

Abbreviations Full Texts

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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
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.

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.