

Safety Data Sheet

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

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1.1 Product identifier

1.

Product code	: GL6777
Product name	: Isobutyric acid
CAS number	: 79-31-2
EINECS	: 201-195-7
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

H226	Flam. Liq. 3
H302	Acute Tox. 4
H311	Acute Tox. 3
H314	Skin Corr. 1B

2.2 Label elements

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

Pictograms



Signal words	Danger		
Hazard statements			
H226	Flammable liquid and vapour		
H302	Harmful if swallowed		
H311	Toxic in contact with skin		
H314	Causes severe skin burns and eye damage		
Precautionary statement	ts		
P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources No smoking.		
P260	Do not breathe dust/fume/gas/mist/vapors/spray.		
P280	Wear protective gloves/protective clothing/eye protection/face protection.		
P301+P312	IF SWALLOWED: call a POISON CENTER/doctor/ IF you feel unwell.		
P303+P361+P353	IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.		
P264	Do not breathe fume.		
P241	Use explosion-proof electrical equipment.		
Other hazards			

2.3

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РВТ

This substance is not identified as a PBT substance.

Substances							
Name		Identifier	%	Classification			
Isobutyric acid		CAS: 79-31-2 EC: 201-195-7 REACH: Not applicable	99.0%	H226, Flam. Liq. 3 H302, Acute Tox. 4 H311, Acute Tox. 3 H314, Skin Corr. 1B			
First aid measures							
Description of first a	id measures						
Skin contact	Consult a doctor. 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	Consult a doctor. Transfer to hospital for specialist examination. Bathe the eye with running water for 15 minutes.						
Ingestion	Consult a doctor. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. 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 oxyger ensure the casualty sits or lies down. If unconscious and breathing is of position. If unconscious, check for breathing and apply artificial respira casualty from exposure ensuring one's own safety whilst doing so. Tra- possible. Consult a doctor.			athing is OK, place in the recovery al respiration if necessary. Remove				
Most important sym	otoms and effects, bo	th acute and delayed					
Skin contact	Blistering may occur. Progressive ulceration will occur if treatment is not immediate. There may be irritation and redness at the site of contact. There may be mild irritation at the site of contact.						
Eye contact	Corneal burns may occur. May cause permanent damage. The eyes may water profusely. There may be irritation and redness. There may be pain and redness.						
Ingestion	Blood may be vomited. Corrosive burns may appear around the lips. Nausea and stomach pain may occur. There may be bleeding from the mouth or nose. There may be irritation of the throat. There may be soreness and redness of the mouth and throat. There may be vomiting.						
Inhalation	irritation of the thro		in the chest. T	mach pain may occur. There may be here may be shortness of breath with a			
Delayed / immediate effects				nmediate effects can be expected after here may be bleeding from the mouth			

Immediate / special treatment

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

5. Fire-fighting measures

5.1 Extinguishing media

Alcohol resistant foam. Carbon dioxide. Dry chemical powder. Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers. Water spray.

5.2 Special hazards arising from the substance or mixture



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Exposure hazards

Corrosive. Highly flammable. In combustion emits toxic fumes. May form flammable / explosive dust-air mixture.

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. Eliminate all sources of ignition. 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. Refer to section 8 of SDS for personal protection details.

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. Do not use equipment in clean-up procedure which may produce sparks.

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. Smoking is forbidden. Use non-sparking tools. 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. Ensure lighting and electrical equipment are not a source of ignition. Keep away from sources of ignition. Keep container tightly closed. Prevent the build up of electrostatic charge in the immediate area. 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 lighting and electrical equipment are not a source of ignition. 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. Safety glasses.
Skin protection	Protective clothing.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

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Physical state
Colour
Odour
Melting point/Freezing point
Boiling point/initial boiling point/boiling range
Flammability
Lower/Upper explosion limit
Flash Point
Auto-ignition temperature
Decomposition temperature
рН
Kinematic viscosity
Solubility
Partition coefficient n-octanol/water
Vapour pressure
Density/relative density
Relative vapour pressure
Particle characteristics

Liquid Colourless No data available. -64 °C 152-155 °C @ Press: 760 Torr Flammable liquid and vapour No data available. No data available. 455°C No data available. No data available. No data available. 618 g/L @ 20 °C No data available. No data available. 0.950 No data available. No data available

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 at room temperature. 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

Flames. Hot surfaces. Sources of ignition. Heat.

^{10.5} Incompatible materials

Materials to avoid

Carbon dioxide. Strong acids. Strong oxidising agents.

11. Toxicological information

11.1 Information on toxicological effects

a) Acute toxicity No data available.

- b) Skin corrosion/irritation
 Skin corrosion/irritation (Category 1B)
- 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 No data available.
- g) Reproductive toxicity No data available.
- h) STOT-single exposure



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No data available.

i) STOT-repeated exposure

No data available.

j) Aspiration hazard

No data available.

11.2 Symptoms / routes of exposure

Skin contact	Blistering may occur. Progressive ulceration will occur if treatment is not immediate. There may be
	irritation and redness at the site of contact. There may be mild irritation at the site of contact.
Eye contact	Corneal burns may occur. May cause permanent damage. The eyes may water profusely. There may be irritation and redness. There may be pain and redness.
Ingestion	Blood may be vomited. Corrosive burns may appear around the lips. Nausea and stomach pain may occur. There may be bleeding from the mouth or nose. There may be irritation of the throat. There may be soreness and redness of the mouth and throat. There may be vomiting.
Inhalation	Exposure may cause coughing or wheezing. Nausea and stomach pain may occur. There may be irritation of the throat with a feeling of tightness in the chest. There may be shortness of breath with a burning sensation in the throat. There may be vomiting.
Delayed / immediate effects	Delayed effects can be expected after long-term exposure. Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur. There may be bleeding from the mouth or nose.
Other information	No data available.

12. Ecological information

12.1 Toxicity

No data available.

^{12.2} Persistence and degradability

Biodegradable.

12.3 Bioaccumulative potential

No bioaccumulation potential.

12.4 Mobility in soil

Readily absorbed into soil.

^{12.5} Results of PBT and vPvB assessment

This substance is not identified as a PBT substance.

^{12.6} Endocrine disrupting properties

This substance is not identified as having endocrine disrupting properties

12.7 Other adverse effects

No data available.

13. Disposal considerations

^{13.1} Waste treatment methods

Disposal operations

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.

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GL6777 v2.0

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ADR	IMDG	ΙΑΤΑ	ADN	RID			
14.1. UN number							
UN2529	UN2529	UN2529	UN2529	UN2529			
14.2. UN proper shipping name							
ISOBUTYRIC ACID	ISOBUTYRIC ACID	Isobutyric acid	ISOBUTYRIC ACID	ISOBUTYRIC ACID			
Transport document description							
UN2529 ISOBUTYRIC ACID, 3, III	UN2529 ISOBUTYRIC ACID, 3, III	UN2529 Isobutyric acid, 3, III	UN2529 ISOBUTYRIC ACID, 3, III	UN2529 ISOBUTYRIC ACID, 3, III			
14.3. Transport hazard cla	ass(es)						
3	3	3	3	3			
14.4. Packing group							
III	III	111	III	III			
14.5. Environmental haza	rds						
No	Νο	Νο	No	No			
Regulatory informatio	n						
Safety, health and environn	nental regulations/legislation spec	ific for the substance or mixtur	e				
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) 19 authorisation:	07/2006, REACH, Annex X	V list of substances subj	ect to No data	a available.			
	07/2006, REACH, Annex X use of certain dangerous su		nufacture, placing No data	a available.			
	05/2009 on substances that 0/2004 on persistent organi			a available. a available.			
2019/1021:							
	nt						

H-Statement Full Texts

- Flammable liquid and vapour H226
- H302 Harmful if swallowed
- H311 Toxic in contact with skin
- H314 Causes severe skin burns and eye damage

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	Effective Concentration 50% European List of Notified Chemical Substances European Inventory of Existing Commercial Chemical Substances Globally Harmonised System 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.