

Safety Data Sheet

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	According to REACH Re	egulations (EC) 1907/2006 and (EU) 2020/87	8
1.	Identification of the sub	Identification of the substance/mixture and of the company/undertaking	
1.1 Product identifier			
	Product name:CAS number:EINECS:Physical form:	GS8301 1-Chlorobutane, GlenPure™, analytical gra 109-69-3 203-696-6 liquid, substance A registration number is not available for th are exempted from registration, the annual the registration is envisaged for a later regi	is substance as the substance or its uses tonnage does not require a registration or
1.2	Relevant identified uses	s of the substance or mixture and uses advi	sed against
	PC21: Laboratory chem	icals.	
1.3	Details of the supplier of	of the safety data sheet	
	Company name :	Glentham Life Sciences LtdTeleplUnit 5 Leafield WayFaxCorsham SN13 9SWEmailUnited KingdomWeb	: +44 (0) 2033 978 909
1.4	Emergency telephone r	number	
	Emergency telephone : number	NHS Direct 111 (UK, 24 hours), 112 (EU, 2	4 Hours), +44 (0) 1225 667 798 (09.00 – 17.00 GMT)
2.	Hazards identification		
2.1	Classification of the substance or mixture		
	Classification under CLP acco	ording to (EC) 1272/2008	
	H225 F	lam. Liq. 2	
	H304 A	Asp. Tox. 1	
	H412 A	Aquatic Chronic 3	
2.2	Label elements		
	Label elements under CLP ac	cording to (EC) 1272/2008	
	Pictograms	GHS02 GHS09	
	Signal words	Danger	
	Hazard statements		
	H225	Highly flammable liquid and vapour	
	H304 H412	May be fatal if swallowed and enters Harmful to aquatic life with long lastin	
	Precautionary stateme		<u>~</u>
	P210		arks, open flames and other ignition sources No smoking.
	P301+P310	IF SWALLOWED: Immediately call a	POISON CENTER/doctor/
	P331 P370+P378	Do NOT induce vomiting. In case of fire: Use to extinguish.	
	P3/0+P3/0	Store in a well ventilated place. Keen	

Store in a well-ventilated place. Keep cool.

Use explosion-proof electrical equipment.

P241 2.3 Other hazards

P403+P235

РВТ

This substance is not identified as a PBT substance.

3.0 Composition/information on ingredients

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3.1 Substances

4.

4.2

Name		Identifier	%	Classification
1-Chlorobutane,	GlenPure™, analytical grade	CAS: 109-69-3 EC: 203-696-6 REACH: Not applicable	99.9%	H225, Flam. Liq. 2 H304, Asp. Tox. 1 H412, Aquatic Chronic 3
irst aid measure	s			
escription of fire	st aid 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.			
Eye contact	Consult a doctor. Bathe the eye with running water for 15 minutes.			
Ingestion	Consult a doctor. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Wash out mouth with water.			
Inhalation	Consult a doctor. Remove casualty from exposure ensuring one's own safety whilst doing so.			
lost important sy	ymptoms and effects, both acut	e and delayed		
Skin contact	There may be irritation and redness at the site of contact. There may be mild irritation at the site of contact.			

	contact.
Eye contact	The eyes may water profusely. There may be irritation and redness. There may be pain and redness.
Ingestion	Nausea and stomach pain may occur. There may be irritation of the throat. There may be soreness and redness of the mouth and throat. There may be vomiting.
Inhalation	Nausea and stomach pain may occur. There may be irritation of the throat with a feeling of tightness in the chest. 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.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate / special treatment

Do not induce vomiting.

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. Water spray.

5.2 Special hazards arising from the substance or mixture

Exposure hazards

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

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.



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6.3 Methods and material for containment and cleaning up

Clean-up procedures

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. Safety glasses.
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	-123.1 °C
Boiling point/initial boiling point/boiling range	78.5 °C @ Press: 760 Torr
Flammability	Highly flammable liquid and vapour
Lower/Upper explosion limit	No data available.
Flash Point	No data available.
Auto-ignition temperature	245°C
Decomposition temperature	No data available.
pH	No data available.
Kinematic viscosity	No data available.
Solubility	110 mg/L @ 20 °C
Partition coefficient n-octanol/water	No data available.
Vapour pressure	No data available.
Density/relative density	0.886
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 react	ivity			
10.1	Reactivity				
	Stable under recon	nmended transport or storage conditions.			
10.2	Chemical stability				
	Stable at room tem	Stable at room temperature. Stable under normal conditions.			
10.3	Possibility of haza	rdous reactions			
	Hazardous reactions				
	Decomposition ma transport or storage	y occur on exposure to conditions or materials listed below. Hazardous reactions will not occur under normal e conditions.			
10.4	Conditions to avoi	d			
	Flames. Hot surfac	ces. Sources of ignition. Heat.			
10.5	Incompatible mate	rials			
	Materials to avoid				
	Carbon dioxide. St	rong acids. Strong oxidising agents.			
11.	Toxicological infor	rmation			
11.1	Information on tox	cicological effects			
a)	Acute toxicity				
	No data available.				
b)	Skin corrosion/irritation				
2)	No data available.				
c)	Serious eye damage/irritation No data available.				
d)	Respiratory or skir	n sensitisation			
	No data available.				
e)	Germ cell mutagenicity				
	No data available.				
f)	Carcinogenicity				
	No data available.				
g)	Reproductive toxic	city			
L.)	No data available.				
h)	STOT-single exposes No data available.	sure			
i)	STOT-repeated exp	nosure			
	No data available.				
j)	Aspiration hazard				
	Aspiration hazard (Category 1)				
	Symptoms / routes of exposure				
	Skin contact	There may be irritation and redness at the site of contact. There may be mild irritation at the site of contact.			
	Eye contact	The eyes may water profusely. There may be irritation and redness. There may be pain and redness.			
	Ingestion	Nausea and stomach pain may occur. There may be irritation of the throat. There may be soreness and redness of the mouth and throat. There may be vomiting			

and redness of the mouth and throat. There may be vomiting.

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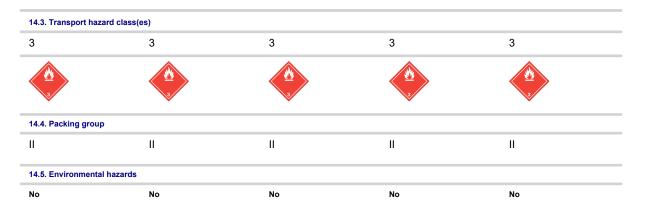
Inhalation	Nausea and stoma in the chest. There		e may be irritation of the t	hroat with a feeling of tightness
Delayed / immediate effects		n be expected after long re. Nausea and stomach		e effects can be expected after
Other information	No data available.			
Information on other	hazards			
Endocrine disrupting p	roperties			
This product does not	contain known or su	spected endocrine disrup	otors according to REACH	or relevant EU Regulations.
Other information				
No additional information	tion			
Ecological informatio	'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 s	ubstance.		
Endocrine disrupting	properties			
This substance is not	identified as having e	endocrine disrupting prop	erties	
Other adverse effects	;			
No data available.				
Disposal consideration	ons			
Waste treatment met	nods			
Disposal operations				
	container and arrange	e for collection by specia	lised disposal company.	
NB	drown to the needbl	a aviatanaa of ragional a	r notional regulations rage	urding diapood
The user's attention is	Grawn to the possible	e existence of regional o	r national regulations rega	arding disposal.
Transport information	ı			
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				

UN1127	UN1127	UN1127	UN1127	UN1127
14.2. UN proper shipping nar	ne			
CHLOROBUTANES	CHLOROBUTANES	Chlorobutanes	CHLOROBUTANES	CHLOROBUTANES
Transport document description				
UN1127 CHLOROBUTANES, 3, II	UN1127 CHLOROBUTANES, 3, II	UN1127 Chlorobutanes, 3, II	UN1127 CHLOROBUTANES, 3, II	UN1127 CHLOROBUTANES, 3, II

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15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/878.

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		
H225	Highly flammable liquid and vapour	
H304	May be fatal if swallowed and enters airways	
H412	Harmful to aquatic life with long lasting effects	

Abbreviations Full Texts

bbieviations i un	Texts
ADN ADR	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways 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 RID SC SDS	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulations Concerning the International Carriage of Dangerous Goods by Rail Subcutaneous Safety Data Sheet
STEL	Short Term Exposure Limit
STOT	Specific Target Organ Toxicity
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) 2020/878.

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.

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