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

Identification of th	e substance/mixture and of the company/undertaking
Product identifier	
Product code	: GS8231
Product name	: Chloroform, GlenPure™, analytical grade stabilised with ethanol
CAS number	: 67-66-3
EINECS	: 200-663-8
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.

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				
H302	Acute Tox. 4			
H315	Skin Irr. 2			
H319	Eye Irr. 2A			
H331	Acute Tox. 3			
H335	STOT SE 3			
H336	STOT SE 3			
H341	Muta. 2			
H351	Carc. 2			
H361	Repr. 2			
H372	STOT RE 1			

2.2 Label elements

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

Pictograms



Signal words	Danger
Hazard statements	
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H331	Toxic if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure

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Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P281	Use personal protective equipment as required.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P311	Call a POISON CENTER or doctor/
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

Name	Identifier	%	Classification
Chloroform, GlenPure™, analytical grade stabilised with ethanol	CAS: 67-66-3 EC: 200-663-8 REACH: Not applicable	99.9%	H302, Acute Tox. 4 H315, Skin Irr. 2 H319, Eye Irr. 2A H331, Acute Tox. 3 H335, STOT SE 3 H336, STOT SE 3 H341, Muta. 2 H351, Carc. 2 H361, Repr. 2 H372, STOT RE 1

4. First aid measures

4.1 Description of first 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. Wash immediately with plenty of soap and water.
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. 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 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. Consult a doctor.

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. Ingestion Convulsions may occur. Inhalation of fumes from the stomach may cause symptoms similar to direct inhalation. Nausea and stomach pain may occur. There may be loss of consciousness. There may be soreness and redness of the mouth and throat. There may be vomiting. Inhalation Convulsions may occur. Drowsiness or mental confusion may occur. 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 loss of consciousness. There may be shortness of breath with a burning sensation in the throat. There may be vomiting.

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Delayed / immediate effects Convulsions may occur. Drowsiness or mental confusion may occur. Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur. 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. 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

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

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

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

Methods and material for containment and cleaning up

Clean-up procedures

6.3

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. Absorb into dry earth or sand.

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 exhaust ventilation of the area. 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

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Substance (CAS)	Control Paramet	er	Value	Notes	Source
Chloroform (67-66-3)	Long-term Expos	sure Limit (ppm)	10	Skin	2000/39/EC
	Long-term Expos	sure Limit (mg m ⁻³)	2	2	
	Long-term Expos	sure Limit (ppm)	2	Sk	UK HSE EH40/2005
	Long-term Expos	sure Limit (mg m ⁻³)	9.9	5	
Exposure controls					
Engineering measures	Ensure there is exhaust	ventilation of the area	a. Ensure there is	sufficient ventila	ation of the area.
Respiratory protection	Respiratory protective device with particle filter. Self- contained breathing apparatus must be available in case of emergency. Self-contained breathing apparatus must be used in handling.				
Hand protection	Protective gloves.				
Eye protection	Ensure eye bath is to hand. Safety glasses.				
Skin protection	Protective clothing.				
Physical and chemical	properties				
nformation on basic p	hysical and chemical pro	perties			
Physical state		Liquid			
Colour		Colourless			
Odour		No data availabl	e.		
Melting point/Freezir	ng point	-63.2 °C			
Boiling point/initial bo	oiling point/boiling range	61.2 °C			
Flammability		No data availabl	e.		
Lower/Upper explosion limit		No data availabl	e.		
Flash Point		No data availabl	e.		
Auto-ignition temperature		No data availabl	e.		
Decomposition temperature		No data availabl			
pH		No data availabl	e.		
Kinematic viscosity		No data availabl			
Solubility		8.7 g/L @ 23 °C			
Partition coefficient r	n-octanol/water	No data availabl	e.		
1/		NU U U U U U			

No data available. Density/relative density 1.484 No data available. Relative vapour pressure

Particle characteristics 9.2 Other information

No data available.

Vapour pressure

10. Stability and reactivity

10.1 Reactivity

8.2

9. 9.1

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.

No data available.

10.4 Conditions to avoid

Heat.

10.5 Incompatible materials

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Materials to avoid

Strong acids. Strong oxidising agents.

11.	Toxicological informat	ion				
11.1	Information on toxicological effects					
a)	Acute toxicity Chloroform					
	4 hr LC50 Rat (Inhalati LD50 Rat (Oral): 2180 LD50 Dog (Oral): 2250 LD50 Rabbit (Oral): 98 LD50 Rat (Oral): 2000	mg/kg 27 mg/kg				
b)	Skin corrosion/irritation					
c)	Serious eye damage/ir Serious eye damage/e	ritation ye irritation (Category 2A)				
d)	Respiratory or skin se No data available.	nsitisation				
e)	Germ cell mutagenicity Germ cell mutagenicity					
f)	Carcinogenicity Chloroform: Carcinoge					
g)	Reproductive toxicity Chloroform: Toxic to Reproduction (suspected) (ECHA Property of Concern) Reproductive toxicity (Category 2)					
h)	STOT-single exposure Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3)					
i)	STOT-repeated exposure Specific target organ toxicity, repeated exposure (Category 1)					
j)	Aspiration hazard No data available.					
11.2	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.				
	Ingestion	Convulsions may occur. Inhalation of fumes from the stomach may cause symptoms similar to direct inhalation. Nausea and stomach pain may occur. There may be loss of consciousness. There may be soreness and redness of the mouth and throat. There may be vomiting.				
	Inhalation	Convulsions may occur. Drowsiness or mental confusion may occur. 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 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. Drowsiness or mental confusion may occur. Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur. There may be loss of consciousness.				
	Other information	No data available.				

12. Ecological information

12.1 Toxicity

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48 hr EC50 Algae (Scenedesmus subspicatus): 560 mg/L 48 hr EC50 Algae (Scenedesmus subspicatus): 950 mg/L

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.

14. Transport information

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
UN1888	UN1888	UN1888	UN1888 UN1888	
14.2. UN proper shipping nam	ne			
CHLOROFORM	CHLOROFORM	Chloroform	CHLOROFORM CHLOROFORM	
Transport document descript	lion			
UN1888 UN1888 UN1888 CHLOROFORM, 6.1, CHLOROFORM, 6.1, III III III		UN1888 Chloroform, 6.1, III	UN1888 CHLOROFORM, 6.1, III	UN1888 CHLOROFORM, 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				
No	No	No	No	No

15. Regulatory information

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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) 1907/20 Regulation (EU) 2020/787.	006, amended by Commission
	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:	13 Jan 2016, Entry No.: 32
	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.

Other information 16.

H-S

H-Statement Full	Texts
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H331	Toxic if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
Abbreviations Ful	II 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
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 PPE	Persistent Bioaccumulative Toxic 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

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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.

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.