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

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product code : GS9671

Product name : Chlorobenzene, GlenDry™, anhydrous

CAS number : 108-90-7
EINECS : 203-628-5
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.

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

1.3

2. Hazards identification

2.1 Classification of the substance or mixture

Classification under CLP according to (EC) 1272/2008

 H226
 Flam. Liq. 3

 H315
 Skin Irr. 2

 H332
 Acute Tox. 4

 H411
 Aquatic Chronic 2

2.2 Label elements

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

Pictograms







3HSU2 GHSU/

Signal words Warning

Hazard statements

H226 Flammable liquid and vapour H315 Causes skin irritation H332 Harmful if inhaled

H411 Toxic to aquatic life with long lasting effects

Precautionary statements

P210 Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER or doctor/... if you feel unwell.

P264 Do not breathe fume. P261 Avoid breathing vapors.

P241 Use explosion-proof electrical equipment.

2.3 Other hazards

PBT

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This substance is not identified as a PBT substance.

3.0 Composition/information on ingredients

3.1 Substances

Name	Identifier	%	Classification
Chlorobenzene, GlenDry™, anhydrous	CAS: 108-90-7 EC: 203-628-5 REACH: Not applicable	99.9%	H226, Flam. Liq. 3 H315, Skin Irr. 2 H332, Acute Tox. 4 H411, Aquatic Chronic 2

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. Wash out mouth with water.
Inhalation	Consult a doctor. Remove casualty from exposure ensuring one's own safety whilst doing so.

4.2 Most important symptoms and effects, both acute 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.
Eye contact	The eyes may water profusely. There may be irritation 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	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 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. 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

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

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Do not create dust. 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

Control parameters

8.1

Workplace exposure limits

Substance (CAS)	Control Parameter Value		Notes	Source
Chlorobenzene (108-90-7)	Long-term Exposure Limit (ppm)	1	Sk	UK HSE EH40/2005
	Long-term Exposure Limit (mg m ⁻³)	4.7		
	Short-term Exposure Limit (ppm)	3	•	
	Short-term Exposure Limit (mg m ⁻³)	14		
	Long-term Exposure Limit (ppm) 23		2006/15/EC	2006/15/EC
	Long-term Exposure Limit (mg m ⁻³)	5		
	Short-term Exposure Limit (ppm)	70		
	Short-term Exposure Limit (mg m ⁻³)	15	•	

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Monochlorobenzene (108-90-7)	Long-term Exposure Limit (ppm)	1	Sk	UK HSE EH40/2005	
	Long-term Exposure Limit (mg m ⁻³)	4.7			
	Short-term Exposure Limit (ppm)	3			
	Short-term Exposure Limit (mg m ⁻³)	14			
	Long-term Exposure Limit (ppm)	23		2006/15/EC	
	Long-term Exposure Limit (mg m ⁻³)	5			
	Short-term Exposure Limit (ppm)	70			
	Short-term Exposure Limit (mg m ⁻³)	15			

Exposure controls 8.2

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.

No data available.

590 - 593°C

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 -45.2 °C 131.7 °C Boiling point/initial boiling point/boiling range

Flammability Flammable liquid and vapour

Lower/Upper explosion limit

Flash Point Auto-ignition temperature Decomposition temperature

рΗ

Kinematic viscosity Solubility

Partition coefficient n-octanol/water

Vapour pressure Density/relative density

No data available. Relative vapour pressure No data available. Particle characteristics

9.2 Other information

No data available.

Stability and reactivity 10.

10.1

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



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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

Chlorobenzene

LD50 Rat (IP): 1655 mg/kg LD50 Rat (Oral): 2.29 g/kg LD50 Rat (Oral): 1110 mg/kg LD50 Rat (Oral): 1760 mg/kg

Monochlorobenzene

LD50 Rat (IP): 1655 mg/kg LD50 Rat (Oral): 2.29 g/kg LD50 Rat (Oral): 1110 mg/kg LD50 Rat (Oral): 1760 mg/kg

b) Skin corrosion/irritation

Skin corrosion/irritation (Category 2)

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

No data available.

i) STOT-repeated exposure

No data available.

j) Aspiration hazard

No data available.

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	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	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 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.

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Other information

No data available.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

This product does not contain known or suspected endocrine disruptors according to REACH or relevant EU Regulations.

11.2.2 Other information

No additional information

12. Ecological information

12.1 Toxicity

96 hr EC50 Algae (Pseudokirchneriella subcapitata): 12500 ug/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.

NΒ

The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. Transport information

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN1134	UN1134	UN1134	UN1134	UN1134
14.2. UN proper shipping nar	me			
CHLOROBENZENE	CHLOROBENZENE	Chlorobenzene	CHLOROBENZENE	CHLOROBENZENE
Transport document descrip	tion			
UN1134 CHLOROBENZENE, 3, III	UN1134 CHLOROBENZENE, 3, III	UN1134 Chlorobenzene, 3, III	UN1134 CHLOROBENZENE, 3, III	UN1134 CHLOROBENZENE, 3, III
14.3. Transport hazard class	(es)			
3	3	3	3	3
^	^	^	^	^













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14.4. Packing group					
III	III	III	III	III	
14.5. Environment	tal hazards				
No	No	No	No	No	

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

No data available.

authorisation:

Regulation (EC) 1907/2006, REACH, Annex XVII restrictions on the manufacture, placing No data available.

on the market and use of certain dangerous substances:

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

No data available.

2019/1021:

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

H226 Flammable liquid and vapour
H315 Causes skin irritation
H332 Harmful if inhaled

H411 Toxic to aquatic life with long lasting effects

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 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
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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