# Vickers Laboratories Ltd - Safety Data Sheet

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 2.1

Revision date: Date printed:

### 16 April 2021 12 August 2023

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## Section 1. Identification

Product Identifier	4340
Product Name	CHLOROBENZENE (Glass Distilled)
CAS Number REACH Registration No	108-90-7 01-2119432722-45-XXXX
Molecular Formula	C <sub>6</sub> H <sub>5</sub> Cl =112.56

#### 1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier

1.1

Vickers Laboratories Ltd

Grangefield Industrial Estate Richardshaw Road Pudsey West Yorkshire LS28 6QW UNITED KINGDOM

	Phone Fax Email Website	44 0113 2362811 +44(0)113 2362703 safety@viclabs.co.uk www.viclabs.co.uk
1.4	Emergency Telephone	(08:00-16:30) +44(0) 113 2362811
		(24hr) 112
		(Have this document to hand)

## Section 2. Hazards Identification

CKERS

#### 2.1 Classification of the substance or mixture

### Classification according to regulation 1272/2008/EC

Flammable liquid, category 3 Skin corrosion/irritation, category 2 Acute toxicity, category 4 (inhalation) Hazard to aquatic environment, category 2 H226: Flammable liquid and vapour.H315: Causes skin irritation.H332: Harmful if inhaled.H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

#### Labelling according to regulation 1272/2008/EC

Signal word

Hazard Pictograms

Warning



Flammable liquid and vapour. Harmful if inhaled. Toxic to aquatic life with long lasting effects. Causes skin irritation.

Precautionary Statements

Keep container tightly closed. Wear protective gloves / protective clothing / eye protection / face protection. Avoid breathing dust / fume / gas / mist / vapours / spray. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

### Section 3. Composition

#### 3.1 Substances

Component CAS No. EEC No.		REACH No. Conc w/w		CLP Classification (1272/2008/CE)	
Chlorobenzene	108-90-7	203-628-5	01-2119432722-45-XXXX	99%	Flam. Liq. 3, Skin Irrit. 2, Acute Tox. 4 (I), Aquatic Chronic 2

### Section 4. First Aid

#### 4.1 Description of first aid measures

Eyes	Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION.
Skin	Thoroughly wash off skin with soap and water. Remove contaminated clothing immediately and wash before re- use. In severe cases or if exposure has been great, OBTAIN MEDICAL ATTENTION.
Inhalation	Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.
Ingestion	If conscious give plenty of water to drink. Do not induce vomiting. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.
Personal protection for first aiders	Wear protective gloves / eye protection.

#### 4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

### 4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

Section 5. Fire Fighting	

#### 5.1 Extinguishing media

Extinguishing Media	Alcohol resistant foam, dry powder, carbon dioxide or vaporising liquid. Use water spray to keep fire exposed containers cool.

Unsuitable Media Do not use water jet.

#### 5.2 Special hazards arising from the substance or mixture

Vapour-air mixtures are explosive.

#### **5.3 Advice for firefighters**

Hazards

Advice for firefighters

Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus.

## Section 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective equipment. Evacuate area immediately. Do not allow general use of area until it is safe to do so. Beware : vapour is heavier than air and will tend to accumulate at low spots.

### **6.2 Environmental precautions**

Enviromental

Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.

#### 6.3 Methods and material for containment and cleaning up

Major Spillage Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with copious amounts of water.

Minor Spillage Contain and absorb on inert material. Transfer absorbent to container for removal. Allow solvent to evaporate in remote area, then dispose of absorbent as solid chemical waste. Wash area down with copious amounts of water.

#### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

### Section 7. Storage & Handling

#### 7.1 Precautions for safe handling

All transfer systems should be earthed to prevent accumulation of static electricity. Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

#### 7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage . Protect from direct sun and store away from sources of ignition. Keep containers closed when not in use. Keep well separated from oxidising agents.

#### 7.3 Specific end use(s)

See section 1.2.

## Section 8. Workplace Exposure & Personal Protection

#### 8.1 Control parameters

Component	CAS No	Concentration	Workplace Exp		osure Limits	
			Long Term (8hr	TWA)	Short Term	15min period)
Chlorobenzene	108-90-7	99%	1.0 ppm	3.0 mg/m-3	-	-

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

#### 8.2 Exposure controls

Respiratory Protection	Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well maintained chemical cartridge organic vapour respirator, or use self contained breathing apparatus.
Hand Protection	Use solvent resistant gloves.
Eye Protection	Use tightly fitting chemical splash proof glasses or goggles.
Skin Protection	Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.
Special Hazards	No special precautions required.

## Section 9. Physical & Chemical Properties

#### 9.1 Information on basic physical and chemical properties

Appearance	Clear colourless liquid.
Odour	Faint almond-like odour.
pH	Not applicable
Boiling Point	131°C
Melting Point	-45°C
Flash Point	29°C (Closed cup)
Upper Flammable Limit	7.1%
Lower Flammable Limit	1.3%
Auto Ignition	637°C
Explosive Properties	Severe in confined spaces.
Oxidising Properties	No.
Vapour Pressure	9mmHg @ 21°C
Relative Density	1.1060

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# 9.2 Other information

## No data available.

# Section 10. Stability & Reactivity

Reactivity	No data available.
Chemical Stability	Stable under normal conditions
Possibility of hazardous reactions	No data available.
Conditions to Avoid	Hot surfaces, naked flames or other sources of ignition.
Incompatable Materials	Strong oxidising agents. Sulphuric acid. Nitric acid.
Hazardous Decomposition Products	Will decompose to emit toxic and irritant fumes of hydrogen chloride.
	Chemical Stability Possibility of hazardous reactions Conditions to Avoid Incompatable Materials Hazardous Decomposition

# Section 11. Toxicological Information

### 11.1 Information on toxicological effects

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Eyes	Both the vapour and liquid will, act as an eye irritant.
Skin	The liquid is mildly irritating to the skin. Only slowly absorbed through intact skin.
LD50 Skin	Not available
Ingestion	Low order of acute toxicity. Ingestion of large amounts may produce nausea, abdominal discomfort, vomiting and diarrhoea.
LD50 Oral	2910mg/kg Rat
Inhalation	Exposure to vapour concentrations above the occupational exposure limits will produce irritation of the eyes, nose, throat and respiratory tract. Large amounts may cause sensitive individuals to cough. Animal inhalation studies show that high exposure levels can cause liver and kidney damage.
LD50 Inhalation	Not available
TCLo	Not available
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	None identified.

# Section 12. Ecological

12.1	Toxicity	Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment.
	LC50 Algal	Not available
	LC50 Crustacea	Not available
	LC50 Fish	Not available
12.2	Persistence and degradability	No data available.
12.3	Bioaccumulative potential	No data available.
12.4	Mobility in soil	No data available.
12.5	Results of PBT & vPvB assessment	Assessment not required.
12.6	Other adverse effects	None known at present.

# Section 13. Disposal Considerations

### 13.1 Waste treatment methods

Dispose of in a licensed incinerator for organic solvents. Do not dispose of as domestic waste. Never dispose of into water courses or sewerage systems due to high risk of explosion.

Contaminated Packaging

Use a licensed waste disposer. Do not attempt to burn any residual liquids due to risk of explosion.

## Section 14. Transport Information

14.1	UN Number	1134
14.2	Proper Shipping Name	Chlorobenzene
14.3	Transport classes UN classification Subsidiary hazard(s) Transport category ADR Hazard ID Tunnel Restriction Code	3 None 2 30 D/E
14.4	Packing Group	III
14.5	Environment hazards	See section 12.
14.6	Special precautions for user	No special precautions required.
14.7	Transport in bulk	Not transported in bulk.

## Section 15. Regulatory Information

#### 15.1 Safety, health and environment regulations specific for subtance/mixture.

#### Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification	Flammable liquid, category 3; Skin corrosion/irritation, category 2; Acute toxicity, category 4 (inhalation); Hazard to aquatic environment, category 2
Signal word	Warning
Hazard Pictograms	
Hazard Statements	H226, H332, H411, H315 Flammable liquid and vapour. Harmful if inhaled. Toxic to aquatic life with long lasting effects. Causes skin irritation.
Precautionary Statements	P233, P280, P261, P301+P310, P331 Keep container tightly closed. Wear protective gloves / protective clothing / eye protection / face protection. Avoid breathing dust / fume / gas / mist / vapours / spray. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

#### 15.2 Chemical safety assessment

Assessment not required.

### Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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