Vickers Laboratories Ltd - Safety Data Sheet

0157

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

Revision: 2.1 Revision date: 16 April 2021
Date printed: 12 August 2023

Section 1. Identification

1.1 Product Identifier 0157

Product Name CHLOROBENZENE pure

CAS Number 108-90-7

REACH Registration No 01-2119432722-45-XXXX

Molecular Formula C. H. 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 Vickers Laboratories Ltd



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Section 2. Hazards Identification

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 Warning

Hazard Pictograms





Ref: 0157



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

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

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.

Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If Inhalation

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 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

Hazards Vapour-air mixtures are explosive.

5.3 Advice for firefighters

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 Exposure 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

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.

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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
Lower Flammable Limit
Auto Ignition
7.1%
1.3%
637°C

Explosive Properties Severe in confined spaces.

Oxidising Properties No.

Vapour Pressure 9mmHg @ 21°C

Relative Density 1.1060

Water Solubility 0.03%

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity No data available.

Stable under normal conditions 10.2 Chemical Stability

10.3 Possibility of hazardous

reactions

No data available.

10.4 Conditions to Avoid Hot surfaces, naked flames or other sources of ignition. 10.5 Incompatable Materials Strong oxidising agents. Sulphuric acid. Nitric acid.

Will decompose to emit toxic and irritant fumes of hydrogen chloride. Hazardous Decomposition

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

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

Low order of acute toxicity. Ingestion of large amounts may produce nausea, abdominal discomfort, vomiting and Ingestion

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 No data available.

degradability

12.3 Bioaccumulative potential No data available. 12.4 Mobility in soil No data available.

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 3
Subsidiary hazard(s) None
Transport category 2
ADR Hazard ID 30
Tunnel Restriction Code D/E

14.4 Packing Group III

14.5 Environment hazards See section 12.

14.6 Special precautions for No special precautions required.

user

14.7 Transport in bulk Not transported in bulk.



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

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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