

Section 1. Identification**1.1 Product Identifier** 1032

Product Name	1,4-DICHLOROBENZENE pure
CAS Number	106-46-7
REACH Registration No	A registration number is not available as the substance or its uses are exempt, the annual tonnage does not require a registration or the registration is envisaged for a later date.
Molecular Formula	$C_6H_4Cl_2 = 147.0$

1.2 Relevant identified uses of the substance or mixture & uses advised against

Uses of Material	Chemical for industrial and laboratory use. Not suitable for domestic use.
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1.3 Supplier Vickers Laboratories Ltd

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1.4 Emergency Telephone (08:00-16:30) +44(0) 113 2362811
(24hr) 112
(Have this document to hand)**Section 2. Hazards Identification****2.1 Classification of the substance or mixture****Classification according to regulation 1272/2008/EC**

Serious eye damage/irritation, category 2	H319: Causes serious eye irritation.
Carcinogenicity, category 2	H351: Suspected of causing cancer.
Hazard to aquatic environment, category 1	H400: Very toxic to aquatic life.
Hazard to aquatic environment, category 1	H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements**Labelling according to regulation 1272/2008/EC**

Signal word	Warning
Hazard Pictograms	



Hazard Statements Suspected of causing cancer. Very toxic to aquatic life with long lasting effects. Causes serious eye irritation.

Precautionary Statements Obtain special instructions before use. Avoid release to the environment. Wear protective gloves / protective clothing / eye protection / face protection. IF exposed or concerned: Get medical advice/attention.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
1,4-Dichlorobenzene	106-46-7	203-400-5		>99%	Eye Irrit. 2, Carc. 2, Aquatic Acute 1, Aquatic Chronic 1

Section 4. First Aid

4.1 Description of first aid measures

Eyes	Flush with water for at least 15 minutes and contact physician.
Skin	Wash skin with soap and water. Rinse thoroughly with water for at least 15 minutes.
Inhalation	Remove from exposure. Keep warm and at rest. If breathing stops or shows signs of failing, apply artificial resuscitation. Seek medical attention if irritation persists.
Ingestion	If conscious wash out mouth with water. OBTAIN MEDICAL ATTENTION.
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	Water spray, foam, dry powder or carbon dioxide.
Unsuitable Media	Nothing specified.

5.2 Special hazards arising from the substance or mixture

Hazards	Presents no specific fire danger.
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5.3 Advice for firefighters

Advice for firefighters	Consider all other materials in the vicinity.
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Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection	Use approved personal protective equipment. Do not allow other people to enter area. Avoid breathing vapour.
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6.2 Environmental precautions

Environmental	Keep material out of sewers, storm drains, surface waters and soil.
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6.3 Methods and material for containment and cleaning up

Major Spillage	Sweep up and transfer to a suitable container for disposal. Ventilate area and wash spill site after material pickup is complete.
Minor Spillage	Shovel/sweep up into container for removal 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

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

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

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage .

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		
1,4-Dichlorobenzene	106-46-7	>99%	25.0 ppm	-	50.0 ppm	-

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 dust concentrations below exposure limits.
Hand Protection	Wear gloves.
Eye Protection	Use safety glasses with side shields.
Skin Protection	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	Colourless crystals.
Odour	Pungent.
pH	Not applicable
Boiling Point	173°C Approx.
Melting Point	52°C Approx.
Flash Point	65°C (Closed cup)
Upper Flammable Limit	5.9%
Lower Flammable Limit	1.7%
Auto Ignition	Not applicable
Explosive Properties	No.
Oxidising Properties	No.
Vapour Pressure	Not applicable
Relative Density	1.460
Water Solubility	Negligible.

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1	Reactivity	No data available.
10.2	Chemical Stability	Stable under normal conditions
10.3	Possibility of hazardous reactions	No data available.
10.4	Conditions to Avoid	Hot surfaces and naked flames.
10.5	Incompatible Materials	Oxidising agents. Alkali metals.
10.6	Hazardous Decomposition Products	In combustion emits Hydrogen chloride gas, carbon dioxide & carbon monoxide.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes	Contact with the solid or dust will be irritating to the eyes.
Skin	Contact with the solid or dust will be mildly irritating to the skin..
LD50 Skin	Not available
Ingestion	Harmful if swallowed.
LD50 Oral	500mg/kg Rat
Inhalation	Material may be irritating to mucous membranes and upper respiratory tract.
LD50 Inhalation	12000mg/kg Rat
TCLo	Not available
Carcinogenicity	Has been found to be carcinogenic to rats and mice.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	None identified.
Other Information	To the best of our knowledge, the chemical, physical, & toxicological properties have not been thoroughly investigated.

Section 12. Ecological

12.1	Toxicity	Toxic to fish; do not allow to contaminate surface waterways.
	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.

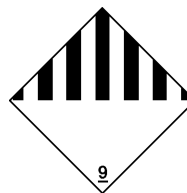
Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods	Dispose of in a licensed incinerator.
Contaminated Packaging	Wash out containers with water. Use a licensed waste disposer.

Section 14. Transport Information

14.1 UN Number	3077
14.2 Proper Shipping Name	Environmentally hazardous substance, solid, N.O.S. (1,4-Dichlorobenzene)
14.3 Transport classes	
UN classification	9
Subsidiary hazard(s)	None
Transport category	3
ADR Hazard ID	90
Tunnel Restriction Code	E
14.4 Packing Group	III
14.5 Environment hazards	Marine pollutant.
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 substance/mixture.

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

Classification Serious eye damage/irritation, category 2; Carcinogenicity, category 2; Hazard to aquatic environment, category 1; Hazard to aquatic environment, category 1

Signal word Warning

Hazard Pictograms



Hazard Statements H351, H410, H319
Suspected of causing cancer. Very toxic to aquatic life with long lasting effects. Causes serious eye irritation.

Precautionary Statements P201, P273, P280, P308+P313
Obtain special instructions before use. Avoid release to the environment. Wear protective gloves / protective clothing / eye protection / face protection. IF exposed or concerned: Get medical advice/attention.

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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