Scientific Laboratory Supplies - Safety Data Sheet CHE1828

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

Revision: 1.1 Revision date: 16 April 2021
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Section 1. Identification

1.1 Product Identifier CHE1828

Product Name DICHLOROMETHANE pure 2.5L.

CAS Number 75-09-2
REACH Registration No 01-21194840404-41-XXXX

Molecular Formula CH_2Cl_2 =84.93

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 Scientific Laboratory Supplies

Unit 6, Foresters Avenue
Fairham Business Park
Fairham
Nottingham
NG11 2AF
UNITED KINGDOM

Phone 0115 9821111
Fax 0115 9825275
Email sales@scientific-labs.com

1.4 Emergency Telephone (08:00-17:00) 0115 9821111
(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

Skin corrosion/irritation, category 2	H315: Causes skin irritation.
Serious eye damage/irritation, category 2	H319: Causes serious eye irritation.
Carcinogenicity, category 2	H351: Suspected of causing cancer.
Spec target organ tox - single, category 3	H336: May cause drowsiness or dizziness.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Warning

Hazard Pictograms

Hazard Statements	Suspected of causing cancer. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness.
Precautionary Statements	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. IF exposed or concerned: Get medical advice/attention. Store locked up. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Dichloromethane	75-09-2	200-838-9	01-21194840404-41-XXXX	>99%	Skin Irrit. 2,Eye Irrit. 2,Carc. 2,STOT SE 3 (D)

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.
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. 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.

Inhalation of vapours may cause headache, nausea or vomiting, dizziness, drowsiness

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

If symptoms of vapour inhalation occur OBTAIN IMMEDIATE MEDICAL ATTENTION.

Section 5. Fire Fighting

5.1 Extinguishing media

Extinguishing Media	Consider what other flammable materials are present and act accordingly. 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	May evolve toxic fumes if involved in a fire. 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	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 detergent and 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 detergent and 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 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 sunlight. Protect against moisture to prevent decomposition and corrosion.

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)	
Dichloromethane	75-09-2	>99%	100.0 ppm	350.0 mg/m-3	200.0 ppm	706.0 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	Fresh and characteristic.
pH	Not applicable
Boiling Point	39.8°C
Melting Point	-96.7°C
Flash Point	Not applicable
Upper Flammable Limit	22%
Lower Flammable Limit	13%
Auto Ignition	556°C
Explosive Properties	Moderate/severe in confined spaces.
Oxidising Properties	No.
Vapour Pressure	380mmHg @ 22°C

Relative Density	1.3250
Water Solubility	Insoluble in water.

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	Incompatable Materials	Strong oxidising agents. Lithium, sodium, potassium and hot aluminium. Nitric acid.
10.6	Hazardous Decomposition Products	Toxic phosgene fumes.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes	Causes serious eye irritation.
Skin	Both the vapour and liquid are, irritating to the skin. Repeated exposure may cause dermatitis.
LD50 Skin	>2000mg/kg Rat
Ingestion	Low order of acute toxicity.
LD50 Oral	2136mg/kg Rat
Inhalation	Exposure to vapour concentrations above the occupational exposure limits may cause narcosis, with symptoms as for 'drunkenness'. High concentrations of vapour may cause breathing problems, leading to bronchitis, pulmonary oedema and eventually unconsciousness.
LD50 Inhalation	76,000mg/m3 Rat (4 hours)
TCLo	5000ppm
Carcinogenicity	Suspected of causing cancer.
Mutagenicity	May be a mutagen.
Reproductive Effects	A greater risk of male sterility has been found in male workers. Increased rates of spontaneous abortions have been found in female workers.

Section 12. Ecological

12.1	Toxicity	Does not persist in the atmosphere. Slowly biodegradable in water and soil. Harmful to aquatic organisms.
	LC50 Algal	>660mg/l Algae (96 hours)
	LC50 Crustacea	Not available
	LC50 Fish	193mg/l Fathead minnow (Pimephales promelas) (96 hours)
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 for organic solvents.
Contaminated Packaging	Use a licensed waste disposer.

Section 14. Transport Information

14.1 UN Number 1593

14.2 Proper Shipping Name Dichloromethane

14.3 Transport classes

UN classification	6.1
Subsidiary hazard(s)	None
Transport category	2
ADR Hazard ID	60
Tunnel Restriction Code	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: Skin corrosion/irritation, category 2; Serious eye damage/irritation, category 2; Carcinogenicity, category 2; Spec target organ tox - single, category 3

Signal word: Warning

Hazard Pictograms

Hazard Statements: H351, H315, H319, H336
Suspected of causing cancer. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness.

Precautionary Statements: P201, P202, P308+P313, P405, P302+P352, P305+P351+P338
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. IF exposed or concerned: Get medical advice/attention. Store locked up. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

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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