

Camlab Limited – Material Safety Data Sheet

1. Identification


Product Code CC/0237-DH

Product Name **DICHLOROMETHANE pure**

Molecular Formula **CH₂Cl₂ =84.93**

CAS Number 75-09-2

Supplier: **CAMLAB LIMITED**



**Norman Way Industrial Estate
Over
Cambridge
England
CB4 5WE**

Phone 01954 233110

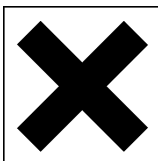
Fax 01954 233101

Emergency Telephone 08:00-17:00 01954 233110
24hr 112
(Have this document to hand)

2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Dichloromethane	75-09-2	200-838-9	> 99.0%	Xn : R40 :Carc.Cat 3	WEL

3. Hazards Identification



Limited evidence of carcinogenic effect. Carcinogen category: 3

4. 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.

5. Fire Fighting Measures

Hazards Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus. May evolve toxic fumes if involved in a fire. Vapour-air mixtures are explosive.

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.

6. Accidental Release Measures

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

7. Storage & Handling

Handling Precautions	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.
Storage Conditions	Well ventilated, cool, dry storage . Protect from direct sunlight. Protect against moisture to prevent decomposition and corrosion.

8.1 Workplace Exposure Limits

Workplace Exposure Limits	Long Term (8hr TWA):	100.0 ppm	350.0 mg m-3
	Short Term (15min Period):	300.0 ppm	1060 mg m-3
Maximum Exposure Limits	Long Term (8hr TWA):	100.0 ppm	350.0 mg m-3
	Short Term (15min Period):	300.0 ppm	1060 mg m-3

Special Hazards Can be absorbed through skin.

8.2 Personal Protection

Respiratory	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.
Hands	Use solvent resistant gloves.
Eyes	Use chemical splash proof glasses or goggles.
Skin	Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

9. Physical & Chemical Properties

Appearance	Clear colourless liquid.
Odour	Fresh and characteristic.
pH	Not available
Boiling point	39.8 °C
Melting point	96.7- °C
Flash point	Not available
Upper Flammable Limit	18.0 %
Lower Flammable Limit	12.0 %
Auto Ignition	600.0 °C
Explosive properties	Moderate/severe in confined spaces.
Oxidising Properties	No.
Vapour Pressure	380 mmHg @ 22,C
Relative Density	1.3260
Water Solubility	Insoluble in water.

10. Stability & Reactivity

Chemical Stability	Stable under normal conditions
Conditions to Avoid	Hot surfaces and naked flames.
Materials to Avoid	Strong oxidising agents. Lithium, sodium, potassium and hot aluminium. Nitric acid.
Hazardous Decomposition Products	Toxic phosgene fumes.

11. Toxicological Information

Eyes	Both the vapour and liquid are, irritating to the eyes but unlikely to cause serious injury.
Skin	Both the vapour and liquid are, mildly irritating to the skin. Repeated exposure may cause dermatitis.
LD50 Skin	Not available
Ingest	Low order of acute toxicity.
LD50 Ingest	Oral Rat 2136 mg/kg
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.
Carcinogenicity	Carcinogen - category 3. Epidemiological studies of workers exposed to dichloromethane is inconclusive however cancers and tumours in rats and mice meet with the criteria for a potential human carcinogen.
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.

12. Ecological

Does not persist in the atmosphere. Slowly biodegradable in water and soil. Harmful to aquatic organisms.

13. Disposal Considerations

Disposal Methods	Dispose of in a licensed incinerator for organic solvents.
Contaminated Packaging	Use a licensed waste disposer.

14. Transport Information

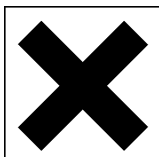
Proper Shipping Name	Dichloromethane
UN Number	1593
UN Classification	6.1 Toxic
Subsidiary Risk	None
Flash Point	Not available
Packing Group	III
Transport Category	2
Marine pollutant	No
ADR Hazard ID	60



15. Regulatory Information

Labelling	Harmful.
Classification	

Label Symbols	Xn
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15. Regulatory Information (continued)

Risk & safety Phrases Limited evidence of carcinogenic effect. Keep out of reach of children. Do not breath vapour. Avoid contact with skin and eyes. Wear suitable protective clothing and gloves. Carcinogen category: 3

EEC Number 200-838-9

16. Other Information

Document Information This document has been prepared in accordance with directive 88/379/EEC.

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

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