



**SAFETY DATA SHEET**  
Methylene Chloride

**1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING**

PRODUCT NAME Methylene Chloride  
 SYNONYMS, TRADE NAMES DCM, , Dichloromethane,  
 SUPPLIER Lindchem Ltd  
 27-30 North River Road  
 Great Yarmouth  
 Norfolk  
 NR301SH  
 +44 1493 850 303  
 +44 1493 330 909  
 SDS No. M015  
 Emergency Contact Number (Office Hours) 01493 850303

**2 HAZARDS IDENTIFICATION**

Limited evidence of a carcinogenic effect.

CLASSIFICATION Carc 3;R40.

**3 COMPOSITION/INFORMATION ON INGREDIENTS**

Name	EC No.	CAS-No.	Content	Classification
DICHLOROMETHANE	200-838-9	75-09-2	50-100%	Carc3;R40

The Full Text for all R-Phrases are Displayed in Section 16

**4 FIRST-AID MEASURES**

**INHALATION**

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

**INGESTION**

Provide rest, warmth and fresh air. Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention.

**SKIN CONTACT**

Remove contaminated clothing immediately and wash skin with soap and water.

**EYE CONTACT**

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.

**5 FIRE-FIGHTING MEASURES**

**EXTINGUISHING MEDIA**

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

**SPECIFIC HAZARDS**

Hydrogen chloride (HCl). Phosgene (COCl<sub>2</sub>). Oxides of: Carbon.

**PROTECTIVE MEASURES IN FIRE**

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

**6 ACCIDENTAL RELEASE MEASURES**

REVISION DATE: 4th January 2008

## Methylene Chloride

### PERSONAL PRECAUTIONS

Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of spray mist and contact with skin and eyes. Provide adequate ventilation.

### ENVIRONMENTAL PRECAUTIONS

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

### SPILL CLEAN UP METHODS

Absorb with inert, damp, non-combustible material, then flush area with water. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

## 7 HANDLING AND STORAGE

### USAGE PRECAUTIONS

Avoid contact with skin and eyes. Avoid inhalation of vapours.

### STORAGE PRECAUTIONS

Keep containers tightly closed. Keep in original container. Keep away from heat, sparks and open flame. Unsuitable containers: copper, zinc, aluminium, copper alloy, zinc alloy, aluminium alloy.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
DICHLOROMETHANE	WEL	100 ppm(Sk)	350 mg/m3(Sk)	300 ppm(Sk)	1060 mg/m3(Sk)

### PROTECTIVE EQUIPMENT



### RESPIRATORY EQUIPMENT

If ventilation is insufficient, suitable respiratory protection must be provided.

### HAND PROTECTION

Gloves of nitrile rubber, PVA or Viton are recommended.

### EYE PROTECTION

Wear approved safety goggles.

### OTHER PROTECTION

Wear rubber footwear. Wear rubber apron.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid		
COLOUR	Clear		
ODOUR	Characteristic		
SOLUBILITY	Slightly soluble in water.		
BOILING POINT (°C)	39.8	MELTING POINT (°C)	96.7
RELATIVE DENSITY	1.320	VAPOUR DENSITY (air=1)	2.93
AUTO IGNITION	556	FLAMMABILITY LIMIT - LOWER(%)	14
TEMPERATURE (°C)			
FLAMMABILITY LIMIT - UPPER(%)	22	PARTITION COEFFICIENT (N-Octanol/Water)	1.25

## 10 STABILITY AND REACTIVITY

### STABILITY

Stable under normal temperature conditions and recommended use.

### CONDITIONS TO AVOID

Avoid exposure to high temperatures or direct sunlight.

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## Methylene Chloride

## HAZARDOUS POLYMERISATION

Will not polymerise.

## MATERIALS TO AVOID

Strong alkalis.

## HAZARDOUS DECOMPOSITION PRODUCTS

Hydrogen chloride (HCl). Phosgene (COCl<sub>2</sub>). Oxides of: Carbon.

## 11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 1500 - 2500 mg/kg (oral rat)

## INHALATION

Vapours may irritate the respiratory system and cause coughing, asthmatic breathing and breathlessness.

## INGESTION

Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

## SKIN CONTACT

Prolonged contact may cause redness and irritation. Causes burns.

## EYE CONTACT

Extreme irritation of eyes and mucous membranes, including burning and tearing. Risk of serious damage to eyes.

## Other Health Effects

Carcinogen Category 3.

## 12 ECOLOGICAL INFORMATION

LC 50, 96 Hrs, FISH mg/l 224

EC 50, 48 Hrs, DAPHNIA, mg/l 480

IC 50, 72 Hrs, ALGAE, mg/l 662

## MOBILITY

The product has poor water-solubility.

## DEGRADABILITY

The product is not expected to be biodegradable.

## 13 DISPOSAL CONSIDERATIONS

## GENERAL INFORMATION

When handling waste, consideration should be made to the safety precautions applying to handling of the product. Do not puncture or incinerate even when empty.

## DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

## 14 TRANSPORT INFORMATION



UK ROAD CLASS 6.1

PROPER SHIPPING NAME DICHLOROMETHANE

UN 1593 NO.

UK ROAD PACK GR. ROAD

ADR CLASS NO. 6.1

ADR CLASS Class 6.1: Toxic substances.

ADR PACK GROUP III

HAZARD No. (ADR) 60

ADR LABEL NO. 6.1

HAZCHEM CODE 2Z

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## Methylene Chloride

CEFIC TEC(R) NO.	61GT1-III	RID CLASS NO.	6.1
RID PACK GROUP	III	UN NO. SEA	1593
IMDG	6.1	IMDG PACK GR.	CLASS
EMS	F-A, S-A	MFAG	See Guide
MARINE POLLUTANT	No.	UN NO. AIR	1593
AIR	6.1	AIR PACK GR.	CLASS

## 15 REGULATORY INFORMATION

## LABELLING



Harmful

## CONTAINS

DICHLOROMETHANE

## RISK PHRASES

R40 Limited evidence of a carcinogenic effect.

## SAFETY PHRASES

S23 Do not breathe vapour/spray.  
 S24/25 Avoid contact with skin and eyes.  
 S36/37 Wear suitable protective clothing and gloves.

## STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

## APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

## GUIDANCE NOTES

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

## 16 OTHER INFORMATION

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REV. NO./REPL. SDS GENERATED 05

SDS NO. M015

## SAFETY DATA SHEET STATUS

Approved.

DATE 2nd April 2007

SIGNATURE Jitendra Panchal

## RISK PHRASES IN FULL

R40 Limited evidence of a carcinogenic effect.