

Section 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier****Product name:** METHYLENE CHLORIDE**REACH registered number(s):** 01-2119480404-41**CAS number:** 75-09-2**EINECS number:** 200-838-9**Synonyms:** MDC

DICHLOROMETHANE

METHYLENE DICHLORIDE

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: Solvent for industrial use. Chemical Intermediate. Laboratories. Heat transfer fluid. Colouring agent. Anti-set off and adhesive agent. Plating agent. Metal surface treating agent. Processing aid. This product is not recommended for any industrial, professional or consumer use other than the identified Uses above.

1.3. Details of the supplier of the safety data sheet**Company name:** Leading Solvents

Marston Business Park

Rudgate

Tockwith

York

YO26 7QF

Tel: 01423 358058**Fax:** 01423 358923**Email:** enquiries@leading-solvents.co.uk**1.4. Emergency telephone number****Emergency tel:** 01423 358058 (Office Hours Only)**Section 2: Hazards identification****2.1. Classification of the substance or mixture****Classification under CLP:** Carc. 2: H351; STOT RE 2: H373; Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335; STOT SE 3: H336**Most important adverse effects:** Suspected of causing cancer. May cause damage to organs [blood] [Liver], through prolonged or repeated exposure. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness.

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2.2. Label elements

Label elements:

Hazard statements: H351: Suspected of causing cancer.
H373: May cause damage to organs [blood] [Liver], through prolonged or repeated exposure.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.

Signal words: Warning

Hazard pictograms: GHS08: Health hazard
GHS07: Exclamation mark



Precautionary statements: P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P260: Do not breathe vapours.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+313: IF exposed or concerned: Get medical advice/attention.

2.3. Other hazards

Other hazards: Danger of serious damage to health by prolonged exposure.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: DICHLOROMETHANE

CAS number: 75-09-2

EINECS number: 200-838-9

REACH registered number(s): 01-2119480404-41

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin.
Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. If large areas of the skin are damaged or if irritation persists seek medical attention.

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Eye contact: Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues

Ingestion: Immediately rinse mouth and provide fresh air. Get medical attention immediately.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. Seek medical attention if necessary.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis.

Eye contact: Causes painful irritation and may cause serious damage to eyes.

Ingestion: Nausea, vomiting, dizziness, headache, eye irritation, kidney damage.

Inhalation: Inhalation of vapours in high concentration may cause irritation of respiratory system. Symptoms of over exposure may be headache, dizziness, tiredness, nausea and vomiting.

Delayed / immediate effects: Delayed effects can be expected after long-term exposure.

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

Immediate / special treatment: Not applicable.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes. This product may give rise to hazardous vapours in a fire.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Ensure suitable personal protection during removal of spillages. Evacuate the area immediately.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding. Alert the neighbourhood to the presence of fumes or gas.

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6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Clean-up should be dealt with only by qualified personnel familiar with the specific substance.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance.
Avoid inhaling vapour

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed. Do not store near acid.

Suitable packaging: Tightly closed original containers. Do not use aluminium containers.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	350 mg/m ³	1060 mg/m ³	-	-

Hazardous ingredients:

DICHLOROMETHANE

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	350 mg/m ³	1060 mg/m ³	-	-

DNEL/PNEC Values

METHYLENE CHLORIDE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	353 mg/m ³	Workers	Systemic
DNEL	Dermal	4750 mg/kg/day	Workers	Systemic

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DNEL	Inhalation	706 mg/m ³	Workers	Local
DNEL	Inhalation	88.3 mg/m ³	Consumers	Systemic
DNEL	Oral	0.06 mg/kg/day	Consumers	Local
DNEL	Inhalation	353 mg/m ³	Consumers	Local
DNEL	Dermal	2395 mg/kg/day	Consumers	Local
PNEC	Fresh water	0.54 mg/l	-	-
PNEC	Marine water	0.194 mg/l	-	-
PNEC	Fresh water sediments	4.47 mg/kg	-	-
PNEC	Marine sediments	1.61 mg/kg	-	-
PNEC	Microorganisms in sewage treatment	26 mg/l	-	-
PNEC	Soil (agricultural)	0.583 mg/kg	-	-

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves, change regularly to avoid permeation problems. PVA gloves. Viton gloves.

Eye protection: Safety goggles. Safety glasses. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless

Odour: Sharp, Penetrating.

Evaporation rate: Moderate

Oxidising: No data available.

Solubility in water: Slightly soluble

Also soluble in: Most organic solvents.

Viscosity: No data available.

Boiling point/range°C: 39-40

Melting point/range°C: -97

Flammability limits %: lower: 12.0

upper: 19.5

Flash point°C: >93

Part.coeff. n-octanol/water: log₁₀ 1.3

Autoflammability°C: 605

Vapour pressure: 47.6KpA@20c

Relative density: 1.330

pH: Not Application

VOC g/l: No data available.

9.2. Other information

Other information: No data available.

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Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat. Hot surfaces. Flames.

10.5. Incompatible materials

Materials to avoid: Amines. Concentrated Nitric Acid.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of hydrogen chloride / phosgene. In combustion emits toxic fumes of carbon monoxide.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

DICHLOROMETHANE

ORL	MUS	LD50	4770	mg/kg
ORL	RAT	LD50	5350	mg/kg
SCU	MUS	LD50	6460	mg/kg

Relevant hazards for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Carcinogenicity	--	Hazardous: calculated
STOT-single exposure	INH	Hazardous: calculated
STOT-repeated exposure	-	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis.

Eye contact: Causes painful irritation and may cause serious damage to eyes.

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Ingestion: Nausea, vomiting, dizziness, headache, eye irritation, kidney damage.

Inhalation: Inhalation of vapours in high concentration may cause irritation of respiratory system. Symptoms of over exposure may be headache, dizziness, tiredness, nausea and vomiting.

Delayed / immediate effects: Delayed effects can be expected after long-term exposure.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Via an authorised waste disposal contractor to a approved waste disposal site. Recover or recycle if possible. Transfer to a suitable container and arrange for collection by specialised disposal company.

Recovery operations: This product should not be allowed to enter drains, water courses or the soil.

Disposal of packaging: As for substance. Used containers must not be cut up or punctured until completely purged of product residues. Labels should not be removed from containers until they have been cleaned.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1593

14.2. UN proper shipping name

Shipping name: DICHLOROMETHANE

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14.3. Transport hazard class(es)

Transport class: 6.1

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 2

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.

H351: Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.