



SAFETY DATA SHEET

METHYLENE CHLORIDE

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Compilation date: 24/06/2005

Revision date: 29/05/2019

Revision No: 11

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: METHYLENE CHLORIDE

REACH registered number(s): 01-21194840404-41-XXXX

CAS number: 75-09-2

EINECS number: 200-838-9

Index number: 602-004-00-3

Product code: MECHGEN

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

Use of substance / mixture: Industrial Solvent. Professional Use. Industrial Use.

1.3. Details of the supplier of the safety data sheet

Company name: J.V. Barrett & Co Ltd

St Ivel Way

Warmley

Bristol

BS30 8TY

United Kingdom

Tel: 01179600060

Fax: 01179352437

Email: sales@barrettine.co.uk

1.4. Emergency telephone number

Emergency tel: +44 (0) 1179 600060 (Office hours only 8am - 5pm Mon- Thurs. 8 am - 4.30 pm
Fri.) +44 (0) 1270 502891 (Out of hours emergency number)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Eye Irrit. 2: H319; STOT SE 3: H336; Carc. 2: H351; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H335

Most important adverse effects: Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May cause damage to organs ([blood, liver]) through prolonged or repeated exposure.

[cont...]

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2.2. Label elements

Label elements:

Hazard statements: 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.
H373: May cause damage to organs ([blood, liver]) through prolonged or repeated exposure.

Hazard pictograms: GHS07: Exclamation mark
GHS08: Health hazard



Signal words: Warning

Precautionary statements: P202: Do not handle until all safety precautions have been read and understood.
P261: Avoid breathing vapours.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313: IF exposed or concerned: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P405: Store locked up.
P501: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

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

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: METHYLENE CHLORIDE

CAS number: 75-09-2

EINECS number: 200-838-9

REACH registered number(s): 01-21194840404-41-XXXX

[cont...]

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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. Wash immediately with plenty of soap and water. Get medical attention promptly if symptoms occur after washing.
- Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
- Ingestion:** Wash out mouth with water. If conscious, give half a litre of water to drink immediately. Transfer to hospital as soon as possible.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

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

- Skin contact:** There may be irritation and redness at the site of contact.
- Eye contact:** There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.
- Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.
- Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

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

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

Immediate / special treatment: Eye bathing equipment should be available on the premises.

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.

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. Contain the spread of the firefighting media. Do not allow run-off from firefighting to enter drains or water courses.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

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6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

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: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

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:

State	Respirable dust	
	8 hour TWA	15 min. STEL
UK	100 ppm (350 mg/m ³)	300 ppm (1060 mg/m ³)

Respirable dust

Hazardous ingredients:

METHYLENE CHLORIDE

Workplace exposure limits:

State	Respirable dust	
	8 hour TWA	15 min. STEL
UK	100 ppm (350 mg/m ³)	300 ppm (1060 mg/m ³)

Respirable dust

DNEL/PNEC Values

METHYLENE CHLORIDE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (repeated dose)	353 mg/m ³	Workers	Local

[cont...]

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DNEL	Inhalation	706 mg/m ³	Workers	Local
DNEL	Inhalation (repeated dose)	88.3 mg/m ³	Consumers	Local
DNEL	Inhalation	353 mg/m ³	Consumers	Local
DNEL	Dermal (repeated dose)	4750 mg/kg bw/day	Workers	Local
DNEL	Dermal	2395 mg/kg bw/day	Consumers	Local
DNEL	Oral	0.06 mg/kg bw/day	Consumers	Local
PNEC	Fresh water	0.31 mg/l	-	-
PNEC	Fresh water sediments	2.57 mg/kg	-	-
PNEC	Marine water	0.031 mg/l	-	-
PNEC	Marine sediments	0.26 mg/kg	-	-
DNEL	Inhalation (repeated dose)	353 mg/m ³	Workers	Systemic
DNEL	Inhalation (repeated dose)	88.3 mg/m ³	General Population	Systemic
DNEL	Inhalation	706 mg/m ³	Workers	Local
DNEL	Inhalation	353 mg/m ³	General Population	Local
DNEL	Dermal (repeated dose)	12 mg/kg bw/day	Workers	Systemic
DNEL	Dermal (repeated dose)	5.82 mg/kg bw/day	General Population	Systemic
DNEL	Oral (repeated dose)	60 µg/kg bw/day	General Population	Systemic
PNEC	Fresh water	130-310 µg/l	-	-
PNEC	Fresh water sediments	163-2570 µg/kg	-	-
PNEC	Marine water	31-130 µg/l	-	-
PNEC	Marine sediments	163-260 µg/kg	-	-
PNEC	Soil (agricultural)	173-330 µg/kg	-	-
PNEC	Microorganisms in sewage treatment	25.9 mg/l	-	-

Hazardous ingredients:

METHYLENE CHLORIDE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (repeated dose)	353 mg/m ³	Workers	Local
DNEL	Inhalation	706 mg/m ³	Workers	Local
DNEL	Inhalation (repeated dose)	88.3 mg/m ³	Consumers	Local
DNEL	Inhalation	353 mg/m ³	Consumers	Local
DNEL	Dermal (repeated dose)	4750 mg/kg bw/day	Workers	Local
DNEL	Dermal	2395 mg/kg bw/day	Consumers	Local
DNEL	Oral	0.06 mg/kg bw/day	Consumers	Local
PNEC	Fresh water	0.31 mg/l	-	-

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PNEC	Fresh water sediments	2.57 mg/kg	-	-
PNEC	Marine water	0.031 mg/l	-	-
PNEC	Marine sediments	0.26 mg/kg	-	-
DNEL	Inhalation (repeated dose)	353 mg/m ³	Workers	Systemic
DNEL	Inhalation (repeated dose)	88.3 mg/m ³	General Population	Systemic
DNEL	Inhalation	706 mg/m ³	Workers	Local
DNEL	Inhalation	353 mg/m ³	General Population	Local
DNEL	Dermal (repeated dose)	12 mg/kg bw/day	Workers	Systemic
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PNEC	Fresh water	130-310 µg/l	-	-
PNEC	Fresh water sediments	163-2570 µg/kg	-	-
PNEC	Marine water	31-130 µg/l	-	-
PNEC	Marine sediments	163-260 µg/kg	-	-
PNEC	Soil (agricultural)	173-330 µg/kg	-	-
PNEC	Microorganisms in sewage treatment	25.9 mg/l	-	-

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

Hand protection: Protective gloves.

Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Environmental: Avoid release to the environment

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless

Odour: Characteristic odour

Evaporation rate: 1.8

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Slightly soluble

Also soluble in: Most organic solvents.

Viscosity: 0.42 mPas @ 25oC

Boiling point/range°C: 40

Melting point/range°C: -95

Flammability limits %: lower: 18.8

upper: 19.5

Flash point°C: No data available.

Part.coeff. n-octanol/water: No data available.

Autoflammability°C: 605

Vapour pressure: 355 mm Hg @ 20oC

Relative density: 1.32

[cont...]

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pH: No data available.

VOC g/l: No data available.

9.2. Other information

Other information: No data available.

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: Direct sunlight. Heat. Flames. Sources of ignition. Moisture.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids. Aluminium. Light alloys.

10.6. Hazardous decomposition products

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

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
ORAL	RAT	LD50	>2000	mg/kg
DERMAL	RAT	LD50	>2000	mg/kg
VAPOURS	RAT	8H LC50	56230	mg/m3

Hazardous ingredients:

METHYLENE CHLORIDE

DERMAL	RAT	LD50	>2000	mg/kg
ORAL	RAT	LD50	>2000	mg/kg
VAPOURS	RAT	8H LC50	56230	mg/m3

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Relevant hazards for product:

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: There may be irritation and redness at the site of contact.

Eye contact: There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

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

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
ALGAE Fresh Water	NOEC	550	mg/l
AQUATIC INVERTEBRATES Marine Water	48H LC50	109	mg/l
FISH Marine Water	96H LC50	97	mg/l
DAPHNIA Fresh Water	96H LC50	193	mg/l
FISH Fresh Water	48H LC50	27	mg/l

Hazardous ingredients:

METHYLENE CHLORIDE

ALGAE Fresh Water	NOEC	550	mg/l
AQUATIC INVERTEBRATES Marine Water	48H LC50	109	mg/l
DAPHNIA Fresh Water	96H LC50	193	mg/l
FISH Fresh Water	48H LC50	27	mg/l
FISH Marine Water	96H LC50	97	mg/l

12.2. Persistence and degradability

Persistence and degradability: Only slightly biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

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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: Avoid release to the environment.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

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

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

Specific regulations: Not applicable.

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.

[cont...]

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Section 16: Other information

Other information

Other information: according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

* 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.
H373: May cause damage to organs ([blood, liver]) through prolonged or repeated exposure.

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.