

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

METHYLENE CHLORIDE

Version 4.0 Print Date 2011/12/06

Revision Date 2011/12/06 MSDS code: MMEC100

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : METHYLENE CHLORIDE

 Substance name
 : dichloromethane

 Index-No.
 : 602-004-00-3

 CAS-No.
 : 75-09-2

 EC-No.
 : 200-838-9

Registration number : 01-2119480404-41-xxxx

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

Use of the : At this time we do not yet have information on identified uses.

Substance/Mixture They will be included in this safety data sheet when available.

Uses advised against : At this moment we have not identified any uses advised

against

1.3. Details of the supplier of the safety data sheet

Company : Brenntag UK & Ireland

Albion House, Rawdon Park GB LS19 7XX Leeds Yeadon

Telephone : 0113 3879 200 Telefax : 0113 3879 280

E-mail address : msds@brenntag.co.uk

1.4. Emergency telephone number

Emergency telephone : Emergency only telephone number (open 24 hours):

number 01865 407333 (N.C.E.C. Culham)

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

	REGULATION (EC) N	lo 1272/2008	
Hazard class	Hazard category	Target Organs	Hazard statements
Carcinogenicity	Category 2		H351
Skin irritation	Category 2		H315



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

METHYLENE CHLORIDE

Version 4.0 Print Date 2011/12/06

Revision Date 2011/12/06 MSDS code: MMEC100

Specific target organ toxicity - single exposure	Category 3	 H335
Specific target organ toxicity - repeated exposure	Category 2	 H373
Specific target organ toxicity - single exposure	Category 3	 H336
Serious eye damage/eye irritation	Category 2	 H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Directive 67/548/EEC	or 1999/45/EC
Hazard symbol / Category of danger	Risk phrases
Carcinogenic Category 3 (Carc.Cat.3)	R40
Irritant (Xi)	R36/37/38
	R67
Harmful (Xn)	R48/22

For the full text of the R-phrases mentioned in this Section, see Section 16.

Most important adverse effects

Human Health : See section 11 for toxicological information.

No further information available.

Physical and chemical

hazards

See section 9 for physicochemical information., No further

information available.

Potential environmental :

effects

See section 12 for environmental information.

No further information available.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols







SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

METHYLENE CHLORIDE

Version 4.0 Print Date 2011/12/06

Revision Date 2011/12/06 MSDS code: MMEC100

Hazard symbols

Signal word : Warning

Hazard statements : H315 Causes skin irritation.

P260

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 through prolonged or repeated exposure if

swallowed.

Precautionary statements

Prevention : P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions

have been read and understood.

Do not breathe dust/ fume/ gas/ mist/

vapours/ spray.

P281 Use personal protective equipment as

required.

P262 Do not get in eyes, on skin, or on clothing.
P271 Use only outdoors or in a well-ventilated

area.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

Response : P304 + P340 IF INHALED: Remove victim to fresh air

and keep at rest in a position comfortable

for breathing.

advice/ attention.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with

water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

Storage : P405 Store locked up.

Disposal : P502 Refer to manufacturer/ supplier for

information on recovery/ recycling.



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

METHYLENE CHLORIDE

Version 4.0 Print Date 2011/12/06

Revision Date 2011/12/06 MSDS code: MMEC100

Hazardous components which must be listed on the label:

dichloromethane

2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5. No other information is available.

3. Composition/information on ingredients

3.1. Substances

Hazardous components	Amount [%]	Classifi (REGULATION (Ed Hazard class / Hazard category		Classification (67/548/EEC)
dichloromethane Index-No. : 602-004-00-3 CAS-No. : 75-09-2 EC-No. : 200-838-9 Registration : 01-2119480404-41-xxxx C&L-No. : 02-2119752537-31-0000	<= 100	Carc.2 Skin Irrit.2 STOT SE3 STOT RE2 STOT SE3 Eye Irrit.2	H351 H315 H335 H373 H336 H319	Carc.Cat.3; R40 Xi; R36/37/38 R67 Xn; R48/22

For the full text of the R-phrases mentioned in this Section, see Section 16. For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures

1. Description of first aid measures

General advice : Remove from exposure, lie down. Remove to fresh air. Keep

patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Take off all contaminated clothing immediately. Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least

48 hours. Consult a physician.

If inhaled : Remove to fresh air. Give oxygen. Consult a physician.

In case of skin contact : Wash off immediately with soap and plenty of water. If skin

irritation persists, call a physician.

R50743 4/18 EN



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

METHYLENE CHLORIDE

Version 4.0 Print Date 2011/12/06

Revision Date 2011/12/06 MSDS code: MMEC100

In case of eye contact : Rinse thoroughly with plenty of water, also under the eyelids.

Consult a physician.

If swallowed : Clean mouth with water and drink afterwards plenty of water. If

swallowed, do not induce vomiting - seek medical advice.

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

Symptoms : No information available.

Effects : No information available.

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

Treatment : Treat symptomatically. No further information available.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing

media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product

itself does not burn.

Unsuitable extinguishing

media

High volume water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards during

firefighting

In case of fire hazardous decomposition products may be produced such as: Carbon monoxide, Hydrogen chloride gas,

Phosgene, Chlorine

5.3. Advice for firefighters

Special protective

equipment for firefighters

In the event of fire, wear self-contained breathing

apparatus. Wear appropriate body protection (full protective

suit)

Further information : Cool closed containers exposed to fire with water

spray. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Keep people away from

and upwind of spill/leak. Provide adequate ventilation. Keep away from heat and sources of ignition. Avoid contact with

R50743 5/18 EN



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

METHYLENE CHLORIDE

Version 4.0 Print Date 2011/12/06

Revision Date 2011/12/06 MSDS code: MMEC100

skin and eyes. Do not breathe gas/fumes/vapour/spray. For

personal protection see section 8.

6.2. Environmental precautions

Environmental precautions

: Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities. Avoid subsoil penetration. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

containment and cleaning

up

Methods and materials for : Ensure adequate ventilation. This material and its container must be disposed of as hazardous waste. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national

regulations (see section 13).

: Treat recovered material as described in the section "Disposal Further information

considerations".

Reference to other sections

For personal protection see section 8.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Handle in accordance with good industrial hygiene and safety

> practice. Avoid contact with the skin and the eyes. Keep container tightly closed. Provide sufficient air exchange and/or exhaust in work rooms. Emergency eye wash fountains and emergency showers should be available in the immediate

vicinity.

: Take off all contaminated clothing immediately. Do not breathe Hygiene measures

gas/fumes/vapour/spray. Avoid contact with the skin and the eyes. Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of

workday.

7.2. Conditions for safe storage, including any incompatibilities

R50743 6/18 ΕN



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

METHYLENE CHLORIDE

Version 4.0 Print Date 2011/12/06

Revision Date 2011/12/06 MSDS code: MMEC100

areas and containers

Requirements for storage : Suitable materials for containers: Mild steel; glass; Unsuitable materials for containers: Light metals; Aluminium; Use appropriate container to avoid environmental contamination. Keep in a dry, cool and well-ventilated place. Keep in an area equipped with solvent resistant flooring. Keep away from direct

sunlight.

Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking. Keep away from heat. Do not spray on a naked flame or any incandescent

material.

Advice on common

storage

: Keep away from combustible material.

German storage class : 6.1B Non combustible substances, toxic

Specific end uses

Specific use(s) : No information available.

8. **Exposure controls/personal protection**

8.1. Control parameters

Component: dichloromethane	CAS-No.
	75-09-2

Derived No Effect Level (DNEL)

Workers, Acute - systemic effects, Inhalation 353 mg/m3

Workers, Long-term - systemic effects, Skin contact : 2395 mg/kg bw/day

Workers, Local effects, Skin contact 88.3 mg/cm2

Long-term exposition

Workers, Local effects, Ingestion : 0.06 mg/kg bw/day

Long-term exposition

: 706 mg/m3 Consumer use, Acute - systemic effects, Inhalation

Consumer use, Long-term - systemic effects, Skin contact : 4750 mg/kg bw/day

Consumer use, Long-term - systemic effects, Inhalation : 353 mg/m3

Predicted No Effect Concentration (PNEC)

R50743 7/18



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

METHYLENE CHLORIDE

Version 4.0 Print Date 2011/12/06

Revision Date 2011/12/06 MSDS code: MMEC100

Fresh water : 0.54 mg/l

Marine water : 0.194 mg/l

Periodical releases : 0.27 mg/l

Fresh water sediment : 4.47 mg/kg dwt

Marine sediment : 1.61 mg/kg dwt

Soil : 0.583 mg/kg

Sewage treatment plant (STP) : 26 mg/l

Other Occupational Exposure Limit Values

EH40 WEL, Short Term Exposure Limit (STEL):

300 ppm, 1,060 mg/m3

EH40 WEL, Time Weighted Average (TWA):

100 ppm, 350 mg/m3

EH40 WEL, Skin designation: Can be absorbed through the skin.

8.2. Exposure controls

Engineering measures

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

Advice : Respirator with filter for organic vapour

Recommended Filter type:AX

Hand protection

Advice : Wear suitable gloves.

Take note of the information given by the producer concerning permeability and break through times, and of special workplace

conditions (mechanical strain, duration of contact).

Protective gloves should be replaced at first signs of wear.

Material : fluorocarbon rubber

Break through time : 8 h



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

METHYLENE CHLORIDE

Version 4.0 Print Date 2011/12/06

Revision Date 2011/12/06 MSDS code: MMEC100

Glove thickness : 0.4 mm

Material : (PE=polyethylene; EVAL=ethylene-vinyl alcohol-copolymer)

Break through time : 8 h Glove thickness : 0.4 mm

Eye protection

Advice : Tightly fitting safety goggles

Skin and body protection

Advice : Wear suitable protective clothing.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

If the product contaminates rivers and lakes or drains inform

respective authorities. Avoid subsoil penetration.

Local authorities should be advised if significant spillages cannot

be contained.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form : liquid

Colour : colourless

Odour : sweet

Odour Threshold : 250 ppm

pH : not applicable

Solidification point : -95.1 °C

Boiling point/boiling range : 40 °C

Flash point : not applicable

Evaporation rate : Currently we do not have any Information from our

supplier about this.



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

METHYLENE CHLORIDE

Version 4.0 Print Date 2011/12/06

Revision Date 2011/12/06 MSDS code: MMEC100

Flammability (solid, gas) : Currently we do not have any Information from our

supplier about this.

Upper explosion limit : 22 %(V)

Lower explosion limit : 13 %(V)

Vapour pressure : 475 hPa (20 °C)

Relative vapour density : 2.93

Density : 1.33 g/cm3 (20 °C)

Water solubility : 13.7 g/l (20 °C)

Partition coefficient: n-octanol/water : log Kow 1.25

Ignition temperature : 605 °C

Thermal decomposition : Currently we do not have any Information from our

supplier about this.

Viscosity, dynamic : 0.41 mPa.s (22 °C)

Viscosity, kinematic : 0.31 mm2/s (25 °C)

Explosive properties : EU legislation: Not explosive

Oxidizing properties : The substance or mixture is not classified as

oxidizing.

9.2. Other information

No further information available.

10. Stability and reactivity

10.1. Reactivity

Advice : No decomposition if stored and applied as directed.

10.2. Chemical stability

Advice : Stable under normal conditions.

R50743 10/18 EN



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

METHYLENE CHLORIDE

Version 4.0 Print Date 2011/12/06

Revision Date 2011/12/06 MSDS code: MMEC100

10.3. Possibility of hazardous reactions

Hazardous reactions : No information available.

10.4. Conditions to avoid

Conditions to avoid : No information available.

10.5. Incompatible materials

Materials to avoid : Aluminium, Zinc, Oxidizing agents, Strong acids and strong

bases

10.6. Hazardous decomposition products

Hazardous decomposition : Hydrogen chloride gas, Carbon monoxide, Phosgene

products

11. Toxicological information

11.1. Information on toxicological effects

	Acute toxicity	
	Oral	
	Currently we do not have any Information from our supplier about this.	
	Inhalation	
	Currently we do not have any Information from our supplier about this.	
	Dermal	
	Currently we do not have any Information from our supplier about this.	
	Irritation	
	Skin	
	Currently we do not have any Information from our supplier about this.	
	Eyes	
	Currently we do not have any Information from our supplier about	
R50743	11/18	E



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

METHYLENE CHLORIDE

Print Date 2011/12/06 Version 4.0

Revision Date 2011/12/06 MSDS code: MMEC100

this.

Sensitisation

Currently we do not have any Information from our supplier about

CMR effects

CMR Properties

Currently we do not have any Information from our supplier about Carcinogenicity

this.

Mutagenicity Currently we do not have any Information from our supplier about

Teratogenicity Currently we do not have any Information from our supplier about

Currently we do not have any Information from our supplier about Reproductive toxicity

Specific Target Organ Toxicity

Single exposure

Currently we do not have any Information from our supplier about

Repeated exposure

Currently we do not have any Information from our supplier about

Aspiration toxicity

Currently we do not have any Information from our supplier about

Further information

Other relevant toxicity information Inhalation of high vapour concentrations can cause CNS-

depression and narcosis.

Risk of serious damage to the lungs (by inhalation).

Liver injury may occur.

Ingestion causes damage of central nervous system, liver, kidneys,



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

METHYLENE CHLORIDE

Version 4.0 Print Date 2011/12/06

Revision Date 2011/12/06 MSDS code: MMEC100

blood and bone marrow.

Limited evidence of a carcinogenic effect.

Experience with human exposure

Repeated and prolonged exposure to solvents may cause brain

and nervous system damage.

Component: dichloromethane	CAS-No.
	75-09-2
Acute toxicity	
Oral	

LD50 : > 2000 mg/kg (rat)

Inhalation

LC50 : 86 mg/l (mouse; 4 h)

Dermal

LD50 : > 2000 mg/kg (rat) (OECD Test Guideline 402)

Irritation

Skin

Prolonged skin contact may defat the skin and produce dermatitis. May cause irritation of the mucous membranes.

Eyes

May have irritant effects.

Sensitisation

Patch test on human volunteers did not demonstrate sensitization properties.

CMR effects

CMR Properties

Carcinogenicity : Suspected of causing cancer.

R50743 13/18 EN



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

METHYLENE CHLORIDE

Version 4.0 Print Date 2011/12/06

Revision Date 2011/12/06 MSDS code: MMEC100

12. Ecological information

12.1. Toxicity

Component: dichloromethane		CAS-No.
		75-09-2
	Acute toxicity	
	Fish	
LC50	: 193 mg/l (Pimephales promelas	s; 96 h)
LC50	: 220 mg/l (Lepomis macrochirus Annex V, C.1.)	s; 96 h) (Directive 67/548/EEC,
Toxicity to daphnia and other aquatic invertebrates.		
EC50	: 480 mg/l (Daphnia magna; 48 h	n) (Immobilization)
LC50	: 27 mg/l (Daphnia magna; 48 h)	
	algae	
EbC50	: > 662 mg/l (Pseudokirchneriella	a subcapitata; 96 h)
NOEC	: 550 mg/l (Scenedesmus subsp	icatus; 8 d)
Bacteria		
EC50	: 2590 mg/l (activated sludge; 40) min) (OECD Test Guideline 209)

12.2. Persistence and degradability

Component: dichloromethane	CAS-No.
	75-09-2
Persistence and degradability	
Persistence	



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

METHYLENE CHLORIDE

Version 4.0 Print Date 2011/12/06

Revision Date 2011/12/06 MSDS code: MMEC100

Result : no data available

Biodegradability

Result : 5 - 26 % (Exposure Time: 28 d)(OECD 301 C)

Not readily biodegradable.

12.3. Bioaccumulative potential

Component: dichloromethane CAS-No.

75-09-2

Bioaccumulation

Result : BCF: < 100

Does not bioaccumulate.

12.4. Mobility in soil

Component: dichloromethane CAS-No.

75-09-2

Mobility

Soil : Highly mobile in soils

12.5. Results of PBT and vPvB assessment

Component: dichloromethane CAS-No.

75-09-2

Results of PBT and vPvB assessment

Result : This substance is not considered to be persistent, bioaccumulating

nor toxic (PBT)., This substance is not considered to be very

persistent nor very bioaccumulating (vPvB).

12.6. Other adverse effects

Additional ecological information

R50743 15/18 EN



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

METHYLENE CHLORIDE

Version 4.0 Print Date 2011/12/06

Revision Date 2011/12/06 MSDS code: MMEC100

Result The product evaporates readily.

Do not flush into surface water or sanitary sewer system.

13. **Disposal considerations**

13.1. Waste treatment methods

Product Disposal together with normal waste is not allowed. Special

disposal required according to local regulations. Do not let

product enter drains.

Contaminated packaging Empty remaining contents. Empty containers should be taken

to an approved waste handling site for recycling or disposal.

Dispose of as unused product.

European Waste

No waste code according to the European Waste Catalogue Catalogue Number can be assigned for this product, as the intended use dictates

the assignment. The waste code is established in consultation

with the regional waste disposer.

Transport information

14.1. UN number

1593

14.2. UN proper shipping name

ADR : DICHLOROMETHANE : DICHLOROMETHANE RID : DICHLOROMETHANE **IMDG**

14.3. Transport hazard class(es)

ADR-Class : 6.1

(Labels; Classification Code; Hazard 6.1; T1; 60; (E)

identification No; Tunnel restriction code)

RID-Class : 6.1

(Labels; Classification Code; Hazard 6.1; T1; 60

identification No)

IMDG-Class

(Labels; EmS) 6.1; F-A, S-A



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

METHYLENE CHLORIDE

Version 4.0 Print Date 2011/12/06

Revision Date 2011/12/06 MSDS code: MMEC100

14.4. Packaging group

ADR : III RID : III IMDG : III

14.5. Environmental hazards

Labeling according to 5.2.1.8 ADR : no Labeling according to 5.2.1.8 RID : no Labeling according to 5.2.1.6.3 IMDG : no Classification as environmentally : no

hazardous according to 2.9.3 IMDG

Classified as "P" according to 2.10 IMDG : no

14.6. Special precautions for user

Note : not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG : Not applicable.

15. Regulatory information

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

UK ISR : dichloromethane: Annual reporting level threshold: 1,000 kg

UK ISR : dichloromethane: Annual reporting level threshold: 10; kg

dichloromethane

EU. REACH, Annex XVII, Marketing and Use Restrictions

(Regulation 1907/2006/EC)

Listed Point Nos.: 59

Notification status

dichloromethane:

Regulatory List Notification Notification number

AICS YES
DSL YES
INV (CN) YES
DCS (IP) YES

DCS (JP) YES (2)-36 ENCS (JP) YES (2)-36 ISHL (JP) YES (2)-36

R50743 17/18 EN



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

METHYLENE CHLORIDE

Version 4.0 Print Date 2011/12/06

Revision Date 2011/12/06 MSDS code: MMEC100

NZ CLSC	YES	
TSCA	YES	
EINECS	YES	200-838-9
KECI (KR)	YES	KE-23893
PICCS (PH)	YES	

15.2. Chemical Safety Assessment

Currently we do not have any Information from our supplier about this.

16. Other information

Full text of R-phrases referred to under sections 2 and 3.

R36/37/38	Irritating to eyes, respiratory system and skin.
R40	Limited evidence of a carcinogenic effect.

Harmful: danger of serious damage to health by prolonged exposure if R48/22

swallowed.

Vapours may cause drowsiness and dizziness. R67

Full text of H-Statements referred to under sections 2 and 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 through prolonged or repeated exposure if swallowed.

Further information

Other information The information provided in this Safety Data Sheet is correct to

our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements

and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material

or in any process, unless specified in the text

|| Indicates updated section.