

Safety Data Sheet

#19811017 · Full 16-section SDS

According to Regulation (EC) No 1907/2006

According to Regulation (EC) No 2020/878

PRODUCT	CAS NUMBER	FORMULA	VERSION	REVISION DATE
Dichloromethane SA	75-09-2	CH ₂ Cl ₂	—	08 Jul 2025

SECTION 1

Identification

1.1 Product identifier

Product name	Dichloromethane SA
CAS number	75-09-2
EC / EINECS number	200-838-9
Chemical formula	CH ₂ Cl ₂
Molecular weight	84.93
SMILES	C(Cl)Cl

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

For research and development. Laboratory chemicals. Manufacture of substances. Not suitable for human or veterinary purposes.

1.3 Details of the supplier of the safety data sheet

Molekula Limited
1 Millennium Way, Newton Aycliffe
Durham, DL5 6JW, United Kingdom
info@molekula.com · +44 (0) 3302 000333

1.4 Emergency telephone number

0344 892 0111 — National Poisons Information Service (NPIS) (United Kingdom — for healthcare professionals (via TOXBASE))

SECTION 2

Hazard identification

2.1 Classification of the substance or mixture

Skin Irrit. 2; H315
Eye Irrit. 2; H319
STOT SE 3; H335
STOT SE 3; H336
Carc. 2; H351

2.2 Label elements



WARNING

CODE	HAZARD STATEMENT
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

CODE	PRECAUTIONARY STATEMENT
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P280	Wear protective gloves/protective clothing/eye protection/face protection
P302+352	IF ON SKIN: Wash with soap and water
P305+351+338	IF IN EYES: Rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
P308+313	IF exposed or concerned: Get medical advice/attention
P501	Dispose of contents/container to an approved waste disposal plant

2.3 Other hazards

Not applicable

SECTION 3

Composition / information on ingredients

3.1 Substances

Name	Dichloromethane SA
CAS number	75-09-2
EC number	200-838-9
Concentration / purity	~100%
Classification according to Regulation (EC) No 1272/2008	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 STOT SE 3; H336 Carc. 2; H351
Hazard statements	H315, H319, H335, H336, H351
Acute toxicity estimate (ATE)	<i>No data available</i>
Impurities / stabilising additives	<i>Not applicable</i>

SECTION 4

First-aid measures

4.1 Description of first aid measures

Inhalation	After inhalation: fresh air. Call in physician.
Skin contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.
Eye contact	After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.
Ingestion	After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

Get medical attention if any discomfort continues. Show this Safety Data Sheet (SDS) to medical personnel. First aiders/ medical personnel need to protect themselves.

4.2 Most important symptoms and effects, both acute and delayed

Treat symptomatically.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5

Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media No specific firefighting procedure given

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Hydrogen chloride gas, Combustible.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

SECTION 6

Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and material for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

7.1 Precautions for safe handling

Heat sensitive. Handle and store under inert gas.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature Ambient

Conditions for safe storage (incompatibilities) Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

7.3 Specific end use(s)

See Section 1.2.

SECTION 8

Exposure controls / personal protection

8.1 Control parameters

Occupational exposure limits (OEL / WEL) Not applicable

DNEC/PNEC data

Fresh water: PNEC = 130µg/L, PNEC = 0.31mg/L.
Fresh water sediment: PNEC = 163µg/kg, sediment dw. PNEC = 2.57mg/kg sediment dw
Water Intermittent: PNEC = 0.27mg/L.
Microorganisms in sewage treatment: PNEC = 26mg/L
Soil (Agriculture): PNEC=173µg/kgsoil dw, PNEC=0.33mg/kgsoil dw.
Marine water: PNEC = 130µg/L PNEC = 0.031mg/L.
Marine water sediment: PNEC = 163µg/kg sediment dw, PNEC = 0.26mg/kg sediment dw
Marine water intermittent: PNEC = 0.027mg/L

8.2 Exposure controls

Eye / face protection	Chemical splash goggles Wear eye/face protection as recommended. All eye/face protection should comply with EN ISO 16321-1:2022.
Skin / hand protection	Recommended gloves: Viton rubber (fluor rubber), 0.7mm (120mins).
Respiratory protection	Full-face respirator Keep self-contained breathing apparatus readily available for emergency use. Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided. Respiratory equipment: Reusable Air-Purifying Respirator (APR). Filter type: ABEK. Standard: EN 14387.
Other protection	<i>No data available</i>
Environmental exposure controls	<i>No data available</i>

SECTION 9

Physical & chemical properties

9.1 Information on basic physical and chemical properties

Appearance / physical state	Liquid DERIVED FROM: LITERATURE
Colour	Colourless DERIVED FROM: LITERATURE
Odour	Characteristic DERIVED FROM: LITERATURE
Melting / freezing point	-97°C DERIVED FROM: LITERATURE
Boiling point	39.8 - 40°C DERIVED FROM: LITERATURE
Flammability	<i>No data available</i>
Lower and upper explosion limit	<i>No data available</i>
Flash point	<i>Not applicable</i>
Auto-ignition temperature	605 °C at 1,013 hPa DERIVED FROM: LITERATURE
Decomposition temperature	<i>No data available</i>
pH	<i>Not applicable</i>
Acidity	Neutral DERIVED FROM: LITERATURE
Kinematic viscosity	<i>No data available</i>
Solubility	13.2 g/l at 25 °C DERIVED FROM: LITERATURE
Partition coefficient n-octanol/water (log value)	log Pow: 1.25 at 20 °C DERIVED FROM: LITERATURE

Vapour pressure	584 hPa at 25 °C DERIVED FROM: LITERATURE
Density (g/mL)	1.33 g/mL DERIVED FROM: LITERATURE
Relative vapour density	No data available
Particle characteristics	No data available

9.2 Other information

No data available

SECTION 10

Stability & reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Sensitivity to light

The product is chemically stable under standard ambient conditions (room temperature) .

Contains the following stabiliser(s): 2-methyl-2-butene (>0.005 - <0.015 %)

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Risk of explosion with: Alkali metals, nitrogen oxides, nitrogen dioxide, Potassium, sodium azide, perchloric acid, Nitric acid, aluminium chloride, Amines, Oxygen (as liquefied gas), powdered aluminium, sodium, aromatic hydrocarbons with powdered aluminium.

Exothermic reaction with: Alkaline earth metals, Powdered metals, amides, alcoholates, nonmetallic oxides, potassium tert-butanolate, sodium amide, Lithium.

10.5 Incompatible materials

Strong oxidizing agents. Strong acids. Amines.

10.6 Hazardous decomposition products

See section 5

SECTION 11

Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (LD50 / LC50) LD50 Oral - Rat - male and female - > 2,000 mg/kg
LD50 Dermal - Rat - male and female - > 2,000 mg/kg
LC50 Inhalation - Mouse - 4 h - 86 mg/l - vapour

Skin corrosion / irritation Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product. (Rabbit -4 h)

Eye corrosion / irritation Risk of corneal clouding. (Rabbit)

Respiratory / skin sensitisation	<i>Not applicable</i>
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Carcinogenicity	<i>Not applicable</i>
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Mutagenicity	<i>Not applicable</i>
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Reproductive toxicity	<i>Not applicable</i>
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STOT (single / repeated exposure)	<i>Not applicable</i>
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Aspiration hazard	<i>Not applicable</i>
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11.2 Information on other hazards

This product does not contain any known or suspected Endocrine disruptors.

SECTION 12

Ecological information

12.1 Toxicity

Toxicity to fish flow-through test LC50 - Pimephales promelas (fathead minnow) - 193.00 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates static test LC50 - Daphnia magna (Water flea) - 27 mg/l - 48 h

Toxicity to bacteria static test EC50 - activated sludge - 2,590 mg/l - 40 min

Toxicity to fish(Chronic toxicity) flow-through test LC50 - Pimephales promelas (fathead minnow) - 471 mg/l - 8 d

12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d

Result: 68 % - Readily biodegradable.

12.3 Bioaccumulative potential

Bioaccumulation Cyprinus carpio (Carp) - 6 Weeks, Bioconcentration factor (BCF): 2 - 5.4, Cyprinus carpio (Carp) - 6 Weeks, Bioconcentration factor (BCF): 6 - 40.

12.4 Mobility in soil

Not applicable

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Endocrine disrupting properties

See Section 11.2.

12.7 Other adverse effects

No data available

SECTION 13

Disposal considerations

13.1 Waste treatment methods

Dispose of in accordance with local/national regulations

SECTION 14

Transport information

14.1 UN number or ID number

UN1593

14.2 UN proper shipping name

DICHLOROMETHANE

14.3 Transport hazard class(es)

6.1



14.4 Packing group

III

14.5 Environmental hazards

no

14.6 Special precautions for user

Special precautions for user *No data available*

Transport category 2

Tunnel code (E)

Packing instruction (ADR) P001

Packing instruction (IMDG) P001

14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15

Regulatory information

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

Substance-specific regulations (e.g. licences)	No data available
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REACH code	Y110
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ECHA notification	Not applicable
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15.2 Chemical safety assessment

Not required

SECTION 16

Other information

Revision notes / other information	This SDS replaces Version 2 08.07.2025
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This Safety Data Sheet was generated automatically from the data Molekula holds against this product, in the 16-section GHS/CLP format. Fields shown as "No data available" carry no recorded value; fields shown as "Not applicable" were assessed as not relevant to this substance. For queries, contact Molekula at info@molekula.com.