

Safety Data Sheet

#90038520 · 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 ≥99.9%	75-09-2	CH ₂ Cl ₂	—	08 Jul 2025

SECTION 1

Identification

Product name	Dichloromethane SA
CAS number	75-09-2
Chemical formula	CH ₂ Cl ₂
Molecular weight	84.93
SMILES	C(Cl)Cl
EC / EINECS number	200-838-9
Recommended use & restrictions	For research and development. Laboratory chemicals. Manufacture of substances. Not suitable for human or veterinary purposes.
Emergency telephone	0344 892 0111 — National Poisons Information Service (NPIS) (United Kingdom — for healthcare professionals (via TOXBASE))

SECTION 2

Hazard identification



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
Other hazards (e.g. PBT / vPvB, not classified)	Not applicable

SECTION 3

Composition / information on ingredients

Purity / concentration	~100%
Impurities / stabilising additives	Not applicable

SECTION 4

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.
Symptoms / effects & medical attention	Treat symptomatically.

SECTION 5

Fire-fighting measures

Suitable extinguishing media	Water Foam Carbon dioxide (CO2) Dry powder
Unsuitable extinguishing media	No specific firefighting procedure given
Special hazards	Carbon oxides, Hydrogen chloride gas, Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.
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

Personal precautions & PPE	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.
Environmental precautions	Do not let product enter drains.
Containment & clean-up methods	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.

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

Storage temperature	Ambient
Precautions for safe handling	Heat sensitive. Handle and store under inert gas.
Conditions for safe storage (incompatibilities)	Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

SECTION 8

Exposure controls / personal protection

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
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.

SECTION 9

Physical & chemical properties

Density (g/mL)	1.33 g/mL DERIVED FROM: LITERATURE
Flash point	<i>Not applicable</i>
Acidity	Neutral DERIVED FROM: LITERATURE
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
Solubility (water)	13.2 g/l at 25 °C DERIVED FROM: LITERATURE
pH	<i>Not applicable</i>
Vapour pressure	584 hPa at 25 °C DERIVED FROM: LITERATURE
Partition coefficient (log Pow)	log Pow: 1.25 at 20 °C DERIVED FROM: LITERATURE
Auto-ignition / decomposition temp	605 °C at 1,013 hPa DERIVED FROM: LITERATURE

SECTION 10

Stability & reactivity

Chemical stability / reactivity	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 %)
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.
Incompatible materials	Strong oxidizing agents. Strong acids. Amines.
Hazardous decomposition products	See section 5

SECTION 11

Toxicological information

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>
Carcinogenicity	<i>Not applicable</i>
Mutagenicity	<i>Not applicable</i>
Reproductive toxicity	<i>Not applicable</i>
STOT (single / repeated exposure)	<i>Not applicable</i>
Aspiration hazard	<i>Not applicable</i>
Endocrine disruptors	This product does not contain any known or suspected Endocrine disruptors.

SECTION 12

Ecological information

Aquatic 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
Persistence & degradability	Biodegradability aerobic - Exposure time 28 d Result: 68 % - Readily biodegradable.
Bioaccumulative potential	Bioaccumulation Cyprinus carpio (Carp) - 6 Weeks, Bioconcentration factor (BCF): 2 - 5.4, Cyprinus carpio (Carp) - 6 Weeks, Bioconcentration factor (BCF): 6 - 40.
Mobility in soil	<i>Not applicable</i>
PBT / vPvB assessment	<i>Not applicable</i>

SECTION 13

Disposal considerations

Waste treatment / disposal methods	Dispose of in accordance with local/national regulations
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SECTION 14

Transport information**UN number** UN1593**Proper shipping name** DICHLOROMETHANE**Class** 6.1**Packing group** III**Transport category** 2**Tunnel code** (E)**Packing instruction (ADR)** P001**Packing instruction (IMDG)** P001**Environmental hazards** no**Special precautions for user** *No data available*

SECTION 15

Regulatory information**REACH code** Y110**UFI code** *Not applicable***ECHA notification** *Not applicable***Chemical safety assessment carried out?** Not required

SECTION 16

Other information**Revision notes / other information** This SDS replaces Version 2 08.07.2025

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