

DICHLOROMETHANE - 24031

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

INDEX: 602-004-00-3 CAS: 75-09-2 EC: 200-838-9 REACH: 01-2119487001-48-0000	DICHLOROMETHANE
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Product name : DICHLOROMETHANE

Product code : 24031.

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

For laboratory use only.

Chemical reagent for general use in industry.

1.3. Details of the supplier of the safety data sheet

Registered company name : CHIMIE-PLUS Laboratoires.

Address : ZAC du pont.01240.Saint Paul de Varax.France.

Telephone : 33-(0)-474-51-77-51. Fax : 33-(0)-4-37-62-15-66.

contact@chimieplus.fr

www.chimieplus.fr

1.4. Emergency telephone number : 33-(0)-1-45-42-59-59.

Association/Organisation : INRS / ORFILA <http://www.centres-antipoison.net>.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Carcinogenicity, Category 2 (Carc. 2, H351).

This substance does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This substance does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS08

Signal Word :

WARNING

Product identifiers :

602-004-00-3 DICHLOROMETHANE

Hazard statements :

H351

Suspected of causing cancer .

Precautionary statements - Prevention :

P201

Obtain special instructions before use.

P280

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/ ...

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Precautionary statements - Response :

P308 + P313

IF exposed or concerned: Get medical advice/attention.

Precautionary statements - Disposal :

P501

Dispose of contents/container to ...

Other information :

2.3. Other hazards

The substance does not fulfil the PBT or vPvP criteria in accordance with annexe XIII of the REACH regulations EC 1907/2006.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Composition :

Identification	Classification (EC) 1272/2008	Note	%
INDEX: 602-004-00-3 CAS: 75-09-2 EC: 200-838-9 REACH: 01-2119487001-48-0000 DICHLOROMETHANE	GHS08 Wng Carc. 2, H351	[1] [2] [XVII]	50 <= x % < 100

Information on ingredients :

[XVII] Restricted substance under Regulation (EC) No. 1907/2006 (REACH), Annex XVII.

[1] Substance for which maximum workplace exposure limits are available.

[2] Carcinogenic, mutagenic or reprotoxic (CMR) substance.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. description of first aid measures

In the event of exposure by inhalation :

Remove to fresh air.

If discomfort persists seek medical attention.

In the event of splashes or contact with eyes :

Rinse abundantly with water when keeping the eyelid separate.

If pain persists, consult an ophthalmologist.

In the event of splashes or contact with skin :

Immediately flush skin with plenty of water

Take off soiled clothes

Consult a doctor in case of prolonged exposure.

In the event of swallowing :

Seek medical attention, showing the label.

Rinse mouth with water (only if the person is conscious)

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

No data available.

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

No data available.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

Suitable methods of extinction

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In the event of a fire, use :

- sprayed water or water mist
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO₂)

Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO₂)
- phosgene (CCl₂O)

5.3. Advice for firefighters

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

If the ground is contaminated, once the product has been recovered by sponging with an inert and non-combustible absorbent material, wash the contaminated area in plenty of water.

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the substance is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Fire prevention :

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid exposure - obtain special instructions before use.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the substance is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

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Packaging

Always keep in packaging made of an identical material to the original.

Suitable packaging materials :

- Glass
- Metal

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- European Union (2022/431, 2019/1831, 2017/2398, 2017/164, 2009/161, 2006/15/CE, 2000/39/CE, 98/24/CE) :

CAS	VME-mg/m ³	VME-ppm	VLE-mg/m ³	VLE-ppm	Notes
75-09-2	353	100	706	200	Skin

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA	STEL	Ceiling	Definition	Criteria
75-09-2	50 ppm			A3; BEI	

- Germany - AGW (BAuA - TRGS 900, 02/2022) :

CAS	VME	Excess	Notes
75-09-2	50 ppm 180 mg/m ³		2 (II)

- Australia (NOHSC: 3008, 1995) :

CAS	TWA	STEL	Ceiling	Definition	Criteria
75-09-2	50 ppm 174 mg/m ³			A	

- Belgium (Royal decree of 11/05/2021) :

CAS	TWA	STEL	Ceiling	Definition	Criteria
75-09-2	50 ppm 177 mg/m ³	200 ppm 706 mg/m ³		D	

- Canada / Quebec (Regulations on occupational health and safety) :

CAS	TWA	STEL	Ceiling	Definition	Criteria
75-09-2	50 ppm 174 mg/m ³			C2.EM	

- China (GBZ 2.1, 2007) :

CAS	TWA	STEL	Anm	TWA	STEL	Anm
75-09-2	200 mg/m ³			G2B		

- France (INRS - Outils 65 / 2021-1849, 2021-1763, decree of 09/12/2021) :

CAS	VME-ppm	VME-mg/m ³	VLE-ppm	VLE-mg/m ³	Notes	TMP No
75-09-2	50	178	100	356	C2.*	12

- Japan (JSOH, Recommendation of occupational exposure limits 2021-2022) :

CAS	TWA	STEL	Ceiling	Definition	Criteria
75-09-2	50 ppm 173 mg/m ³				

- New Zealand (Workplace Exposure standards, 11/2020, edition 12-1) :

CAS	TWA	STEL	Ceiling	Definition	Criteria
75-09-2	50 ppm 174 mg/m ³			6.7B	

- Switzerland (Suva 2021) :

CAS	VME	VLE	Valeur plafond	Notations
75-09-2	50 ppm 177 mg/m ³	200 ppm 706 mg/m ³		

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- USA / NIOSH IDLH (National Institute for Occupational Safety and Health, Immediately Dangerous to Life or Health Concentrations) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
75-09-2	-	-	2300	-	-

- UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
75-09-2	100 ppm 353 mg/m ³	200 ppm 706 mg/m ³		BMGV. Sk	

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

DICHLOROMETHANE (CAS: 75-09-2)

Final use:

Exposure method:
Potential health effects:
DNEL :

Workers.

Inhalation.
Short term systemic effects.
132.14 mg of substance/m3

Final use:

Exposure method:
Potential health effects:
DNEL :

Man exposed via the environment.

Inhalation.
Short term systemic effects.
5 mg of substance/m3

Predicted no effect concentration (PNEC):

DICHLOROMETHANE (CAS: 75-09-2)

Environmental compartment:
PNEC :

Soil.
173 µg/kg

Environmental compartment:
PNEC :

Fresh water.
130 µg/l

Environmental compartment:
PNEC :

Sea water.
130 µg/l

Environmental compartment:
PNEC :

Fresh water sediment.
163 µg/kg

Environmental compartment:
PNEC :

Marine sediment.
163 µg/kg

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard EN166.

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- Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- PVA (Polyvinyl alcohol)

- Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state

Physical state : Fluid liquid.

Colour

Color: Colorless

Odour

Odour threshold : Not stated.

Melting point

Melting point/melting range : -95 °C.

Freezing point

Freezing point / Freezing range : Not stated.

Boiling point or initial boiling point and boiling range

Boiling point/boiling range : Not specified.

Flammability

Flammability (solid, gas) : Not stated.

Lower and upper explosion limit

Explosive properties, lower explosivity limit (%) : 13 (V)

Explosive properties, upper explosivity limit (%) : 22 (V)

Flash point

Flash point interval : Not relevant.

Auto-ignition temperature

Self-ignition temperature : 605 °C.

Decomposition temperature

Decomposition point/decomposition range : Not specified.

pH

pH : Not relevant.

pH (aqueous solution) : Not stated.

Kinematic viscosity

Viscosity : Not stated.

Solubility

Water solubility : Soluble. 20 g/l à 20 °

Fat solubility : Not stated.

Partition coefficient n-octanol/water (log value)

Partition coefficient: n-octanol/water : 1,3

Vapour pressure

Vapour pressure (50°C) : Not relevant.

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Density and/or relative density

Density : 1,33

Relative vapour density

Vapour density : 2.93

9.2. Other information

Molecular formula : CH₂Cl₂

9.2.1. Information with regard to physical hazard classes

No data available.

9.2.2. Other safety characteristics

No data available.

Evaporation rate

Evaporation rate : 0.71

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This substance is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

Keep away from :

- strong acids
- strong bases
- alkali metals
- oxidising agents
- powdered metals (aluminium, magnesium, potassium, sodium and zinc)

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO₂)
- phosgene (CCl₂O)

SECTION 11 : TOXICOLOGICAL INFORMATION

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

Suspected human carcinogen.

11.1.1. Substances

Skin corrosion/skin irritation :

Skin - rabbit - Irritating to skin

Serious damage to eyes/eye irritation :

Eyes - rabbit - Mild eye irritation - 24 hours

Germ cell mutagenicity :

N/A

Carcinogenicity :

N/A

N/A

N/A

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N/A

Symptoms related to the physical, chemical and toxicological characteristics

May be harmful if inhaled. Causes respiratory system irritation.

May be harmful if swallowed.

May be harmful if absorbed through the skin. Provoke a skin irritation

May cause eye irritation

11.2. Information on other hazards

Monograph(s) from the IARC (International Agency for Research on Cancer) :

CAS 75-09-2 : IARC Group 2A : The agent is probably carcinogenic to humans.

SECTION 12 : ECOLOGICAL INFORMATION

12.1. Toxicity

12.2. Persistence and degradability

N/A

N/A

12.3. Bioaccumulative potential

N/A

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No data available.

German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws) :

WGK 2 : Hazardous for water.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the substance and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2021 - IMDG 2020 [40-20] - ICAO/IATA 2022 [63]).

14.1. UN number or ID number

1593

14.2. UN proper shipping name

UN1593=DICHLOROMETHANE

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14.3. Transport hazard class(es)

- Classification :



6.1

14.4. Packing group

III

14.5. Environmental hazards

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14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	6.1	T1	III	6.1	60	5 L	516	E1	2	E

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage Handling	Segregation
	6.1	-	III	5 L	F-A. S-A	-	E1	Category A	SGG10

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	6.1	-	III	655	60 L	663	220 L	-	E1
	6.1	-	III	Y642	2 L	-	-	-	E1

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

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

Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2022/692 (ATP 18)

Container information:

No data available.

Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):

Restricted substance under Annex XVII of Regulation (EC) no. 1907/2006 (REACH):
<https://echa.europa.eu/substances-restricted-under-reach>.

Particular provisions :

No data available.

German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws) :

WGK 2 : Hazardous for water.

15.2. Chemical safety assessment

No data available.

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SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the substance and not as a guarantee of the properties thereof.

Wording of the phrases mentioned in section 3 :

H351 Suspected of causing cancer .

Abbreviations and acronyms :

REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

CMR: Carcinogenic, mutagenic or reprotoxic.

STEL : Short-term exposure limit

TWA : Time Weighted Averages

TMP : French Occupational Illness table

TLV : Threshold Limit Value (exposure)

AEV : Average Exposure Value.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

GHS08 : Health hazard

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.