

SAFETY DATA SHEET

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

1.1 Product identifiers

Product name Dichloromethane

CAS number 75-09-2

Synonyms Methylene Chloride

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

Identified uses Industrial use only.

1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute oral toxicity (Category 4)

Skin Corrosion/Irritation (Category 2)

Serious Eye Damage/Eye Irritation (Category 2A)

Specific target organ toxicity - single exposure, R (Category 3)

Specific target organ toxicity - single exposure, N (Category 3)

Carcinogenicity (Category 2)

Specific target organ toxicity - repeated exposure, N (Category 2)

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2.2 GHS Label elements, including precautionary statements

Pictogram





Signal Word Warning.

Hazard statements Harmful if swallowed

Causes skin irritation

Causes serious eye irritation
May cause respiratory irritation
May cause dizziness ordrowsiness
Suspected of causing cancer

Causes damage to organs through prolonged or repeated exposure

Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust/fume/gas/mist/vapours/spray. Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

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

Use personal protective equipment as required.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel

unwell.

IF ON SKIN: Wash with soap and water.

IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses if present and easy to do so - continue rinsing. IF exposed or concerned: get medical advice/attention.

Call a POISON CENTER or a doctor/physician if you feel unwell.

Get medical advice/attention if you feel unwell.

Rinse mouth.

If skin irritation occurs: get medical advice/attention.
If eye irritation persists get medical advice/attention.
Take off contaminated clothing and wash before reuse.
Store in a well ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents/container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number Concentratio	
Dichloromethane	Methylene Chloride	75-09-2	≥ 99.5%

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SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

If inhaled Remove victim to fresh air. Administer oxygen or artificial respiration if

breathing is affected or stopped. Seek immediate medical attention if

symptoms persist.

In case of skin contact Wash exposed areas with water and mild soap. Remove contaminated

clothing immediately and launder before reuse. If irritations persist, seek

immediate medical attention.

In case of eye contact Flush with water for 15 minutes. Seek immediate medical attention.

If swallowed If swallowed. Seek immediate medical attention. Do not induce vomiting

unless instructed to do so by medical personel or a poison control center.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Note to Physician: Treat Symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water fog. Carbon dioxide (CO2). Dry chemical.

Chemical foam.

Unsuitable extinguishing mediaNo information available.

5.2 Specific hazards arising from the substance or mixture

Product is flammable and may be ignited by heat, sparks, flames or other sources of ignition (e.g., static electricity, pilot lights or mechanical/electrical equipment). Vapors are heavier than air and may accumulate in low areas. Vapors may travel considerable distances to a source of ignition where they can ignite, flashback or explode. May create vapor/air explosion hazard indoors, outdoors or in sewers. If container is not properly cooled, it can explode in the heat of a fire.

5.3 Special protective equipment and precautions for firefighters

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Use self-contained breathing apparatus and full bunker gear in fire areas. Evacuate all unprotected personnel from area. Keep containers cool with water fog to minimize swelling taking care not to spread flames with water used for cooling.

5.4 Further information

Flash Point 624 - 662 °C / 1155 - 1224 °F

Autoignition Temperature 556 °C / 1033 °F

Explosion limits

Upper 19% **Lower** 12%

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

NFPA

Health	Flammability	Instability	Physical hazards
2	1	0	N/A

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep all sources of ignition and hot metal surfaces away from spill or release. Evacuate all unprotected personnel from the area.

6.2 Environmental precautions

Prevent liquid from entering drains, sewers, waterways, ground and surface water or soil. Contain spill if it can be done with minimal risk.

6.3 Methods and materials for containment and cleaning up

Use foam on spills to minimize vapors. Using only non-sparking tools and explosion proof equipment, collect spill on absorbent material and put into approved container.

6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions on safe handling

Vent container carefully before opening. Empty containers retain residue and/or vapor and may be dangerous. Do not cut, weld, braze solder, drill, grind or expose such containers to heat, flames, sparks, or other ignition sources. Keep containers tightly closed when not in use. Avoid prolonged breathing of mist or vapor. Wash thoroughly after handling.

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Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Store out of direct sunlight and in a cool, well-ventilated area. Aluminum equipment should not be used in the sorage and/or transfer. Contact with aluminum parts in a pressurizable fluid system may cause violent reactions.

Incompatibilities

Strong Oxidizers, alkalies, nitrogen peroxide, reactive metals, open flame, hot surfaces.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Туре	Value
Dichloromethane	TWA	25 ppm
	STEL	125 ppm

US. ACGIH Threshold Limit Values

Component	Туре	Value
Dichloromethane	TWA	50 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Component	Type	Value
Dichloromethane	IDLH	2300 ppm

Biological occupational exposure limits

No information available.

8.2 Exposure controls

Appropriate engineering controls

Adequate local or mechanical ventilation to reduce vapor or mist to below the PEL or TLV. Follow accepted work practices for handling a flammable material. Do not eat, drink or smoke in areas where this chemical is used or stored. Wash hands prior to eating, drinking or using the restroom. Any clothing or shoes which became contaminated with the product should be removed immeadiately and thoroughly laundered before wearing again.

Personal protective equipment

Eye/face protection

Goggles or approved OSHA device with side shields; do not wear contact lenses when handling this product.

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Skin protection

Impervious solvent resistant gloves with a PF of 10 to 20. Impervious apron and work boots recommend where splashing may occur.

Body Protection

Wear appropriate clothing to prevent skin exposure.

Respiratory protection

Use the proper respirator with APFs ranging from 10 to 50 in areas where the chemical exposure is unknown or above the OSHA PEL (100ppm) or ACGIH TLV (10ppm [2006]).

Control of environmental exposure

Do not let product enter the drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State Liquid
Appearance Colorless
Odor Midly sweet
Odor Threshold 200 - 300 ppm

pH No information available.

Melting Point/Range -95 °C / 139 °F Boiling Point/Range 40 °C / 104 °F Evaporation Rate 0.7 (Ether = 1) Flammability (solid) Not applicable.

Flammability or explosive limit

Upper 19% Lower 12%

Vapor Pressure 350 mmHg @20°C

Vapor Density $2.9 ext{ (Air = 1)}$

Density 1.32

Solubility 1.32 Gr/100 Gr @ 25°C

Partition coefficient; n-octanol/water

Autoignition Temp 556 °C / 1033 °F

Decomposition Temp No information available. Viscosity No information available.

Molecular Formula CH2Cl2
Molecular Weight 84.93

VOC Content(%) 0% (VOC-Exempt Solvent)
Oxidizing properties No information available.

9.2 Other safety information

No information available.

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SECTION 10: Stability and reactivity

10.1 Reactivity

None known, based on information available.

10.2 Chemical stability

Stable under normal conditions. Decomposes on exposure to light.

10.3 Possibility of hazardous reactions

Forms a detonable mixture with nitric acid.

10.4 Conditions to avoid

Excess heat. Protect from direct sunlight.

10.5 Incompatible materials

Strong Oxidizers, alkalies, nitrogen peroxide, reactive metals, open flame, hot surfaces

10.6 Hazardous decomposition products

Hydrogen chloride, phosgene, chlorine.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Dichloromethane	> 2000 mg/kg (rat)	> 2000 mg/kg (rat)	52000 mg/m3 (rat)

Skin corrosion/irritation

Contact may cause mild skin irritation including redness, burning and drying/cracking of the skin. Can be painful if skin is confined in gloves, clothing, etc. Repeated or prolonged contact with large amounts of this material may result in absorption through the skin to produce toxic effects.

Serious eye damage/eye irritation

Causes eye irritation including stinging, watering and redness which may result in corneal injury.

Respiratory or skin sensitization

Low to moderate degree of toxicity by inhalation. May cause respiratory tract irritation. Inhalation of vapors may cause drowsiness and dizziness.

Germ cell mutagenicity

No information available.

Carcinogenicity

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Ī	Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
	Dichloromethane	75-09-2	Group 2A	Reasonably Anticipated	A3	Listed	А3

Specific target organ toxicity - single exposure

Central Nervous System (CNS)

Specific target organ toxicity - repeated exposure

Liver, Kidney, Blood.

Reproductive toxicity

No information available.

Chronic effects

Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Causes central nervous system depression: Continued or high exposures by inhalation will cause anaesthetic effects. This may result in a loss of consciousness and could prove fatal: Causes formation of carbon monoxide in the blood. Carbon monoxide may cause adverse effects on the cardiovascular system and the central nervous system.

11.2 Additional Information

No information available.

SECTION 12: Ecological information

12.1 Toxicity

Product		Species	Test Results	
	EC50	freshwater algae	> 660 mg/L	96 h
	LC50	pimephales promelas	193 mg/L	96 h
Methylene Chloride	EC50	microtox	1 mg/L	24 h
	EC50	microtox	2.88 mg/L	15 min
	EC50	water flea	140 mg/L	48 h

12.2 Persistence and degradability

Persistence is unlikely based on information available.

12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

Will likely be mobile in the environment due to its volatility.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

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No information available.

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

DOT (US)

UN-no UN 1593

Proper Shipping Name Dichloromethane

Hazard Class 6.1 Packing Group III

IMDG

UN-no UN 1593

Proper Shipping Name Dichloromethane

Hazard Class 6.1 Packing Group III

IATA

UN-no UN 1593

Proper Shipping Name Dichloromethane

Hazard Class 6.1 Packing Group III

SECTION 15: Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Listed. Dichloromethane 75-09-2. RQ: 1000 lb and 454 kg

SARA 304 Emergency release notification

Not regulated.

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OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Listed.

SARA 313 (TRI reporting)

Listed. Dichloromethane 75-09-2. Weight: > 99.5%; Threshold values: 0.1%

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Regulated.

Safe Drinking Water Act

Not regulated.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not regulated.

US state regulations

US. Massachusetts RTK - Substance List

Listed. Dichloromethane 75-09-2

US. New Jersey Worker and Community Right-to-Know Act

Listed. Dichloromethane 75-09-2

US. Pennsylvania Worker and Community Right-to-Know Law

Listed. Dichloromethane 75-09-2

California Proposition 65

This product contains a chemical known to the State of California to cause cancer. Dichloromethane 75-09-2

SECTION 16: Other information

Issue date: 09/19/2024

SECTION 17: Disclaimer

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The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information 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.

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