

## 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)

## 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 or drowsiness 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	Concentration
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

<b>If inhaled</b>	Remove victim to fresh air. Administer oxygen or artificial respiration if breathing is affected or stopped. Seek immediate medical attention if symptoms persist.
<b>In case of skin contact</b>	Wash exposed areas with water and mild soap. Remove contaminated clothing immediately and launder before reuse. If irritations persist, seek immediate medical attention.
<b>In case of eye contact</b>	Flush with water for 15 minutes. Seek immediate medical attention.
<b>If swallowed</b>	If swallowed. Seek immediate medical attention. Do not induce vomiting unless instructed to do so by medical personnel 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

<b>Suitable extinguishing media</b>	Water fog. Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Chemical foam.
<b>Unsuitable extinguishing media</b>	No 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

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.

### 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 storage and/or transfer. Contact with aluminum parts in a pressurizable fluid system may cause violent reactions.

### Incompatibilities

Strong Oxidizers, alkalis, 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	Type	Value
Dichloromethane	TWA	25 ppm
	STEL	125 ppm

#### US. ACGIH Threshold Limit Values

Component	Type	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 immediately 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.

### **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	Mildly 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 (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	CH <sub>2</sub> Cl <sub>2</sub>
Molecular Weight	84.93
VOC Content(%)	0% (VOC-Exempt Solvent)
Oxidizing properties	No information available.

### **9.2 Other safety information**

No information available.

## 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, alkalis, 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/m <sup>3</sup> (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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Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Dichloromethane	75-09-2	Group 2A	Reasonably Anticipated	A3	Listed	A3

### 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	
Methylene Chloride	EC50	freshwater algae	> 660 mg/L	96 h
	LC50	pimephales promelas	193 mg/L	96 h
	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



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.

**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**

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.