

# 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: General purpose solvent.

### 1.3 Details of the supplier of the safety data sheet

Company : Lab Alley, LLC

22111 Highway 71 West, Suite 601

Spicewood, Texas 78669

U.S.A.

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

## 1.4 Emergency telephone

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

> International 1-352-323-3500 **INFOTRAC**

### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture 2.1

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

Skin Corrosion/irritation (Category 2) Serious Eye Damage/Eye Irritation (Category 2) Carcinogenicity (Category 2)

Specific target organ toxicity (single exposure) (Category 3)

Target Organs - Central nervous system (CNS), Respiratory system.

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## 2.2 GHS Label elements, including precautionary statements

Pictogram:



Signal Word: Warning

Hazard statement(s): Causes skin irritation. Causes serious eye irritation. May cause drowsiness or

dizziness. May cause cancer.

Precautionary statement(s): Prevention - Obtain special instructions before use. Do not handle until all safety

precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Wear eye/ face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. **Response** - IF exposed or concerned: Get medical attention/ advice. IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get

medical advice/attention.

#### Hazards not otherwise classified

None identified.

WARNING! This product contains a chemical known in the State of California to cause cancer.

## **SECTION 3: Composition/information on ingredients**

## 3.1 Components

Component	CAS-No	Weight %
Methylene chloride	75-09-2	>95

## **SECTION 4: First aid measures**

## 4.1 Description of first-aid measures

**General advice:** If symptoms persist, call a physician. Show this material safety data sheet to

the doctor in attendance.

**If inhaled:** Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

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In case of skin contact: Wash off immediately with plenty of water for at least 15 minutes. Take off

immediately all contaminated clothing. Obtain medical attention.

In case of eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Obtain medical attention.

In case of ingestion: Clean mouth with water and drink afterwards plenty of water. Obtain medical

attention.

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

Breathing difficulties. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

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

Treat symptomatically.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable (and unsuitable) extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. For this substance/mixture no limitations of extinguishing agents are given.

## 5.2 Specific hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Hazardous combustion products - Carbon monoxide (CO) Carbon dioxide (CO2) Hydrogen chloride gas Phosgene

### 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Ensure adequate ventilation. Should not be released into the environment. See Section 12 for additional ecological information. Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. 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. Should not be released into the environment.

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## 6.3 Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

### 6.4 Reference to other sections

For disposal see section 13.

## **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material. Dispose of properly. Clean up affected area. Keep in suitable, closed containers for disposal.

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

### Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

### **SECTION 8. Exposure controls/personal protection**

### 8.1 Occupational exposure limits

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methylene chloride	TWA: 50 ppm	(Vacated) TWA: 500 ppm (Vacated) STEL: 2000 ppm (Vacated) Ceiling: 1000 ppm TWA: 25 ppm STEL: 125 ppm	IDLH: 2300 ppm

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Methylene chloride	TWA: 50 ppm TWA: 174 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 330 mg/m <sup>3</sup> STEL: 500 ppm STEL: 1740 mg/m <sup>3</sup>	TWA: 50 ppm

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## 8.2 Exposure controls

### Appropriate engineering controls

Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

## Personal protective equipment

### **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles. Face-shield.

### Skin and body protection

Long sleeved clothing.

### Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Control of environmental exposure

Do not let product enter drains.

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Physical State Liquid.

Appearance Colorless.

Odor Sweet

Odor Thresh 250 ppm

pH Not applicable.

**Melting Point/Range** 97 °C / -142.6 °F

**Boiling Point/Range** 39 - 40 °C / 102.2 - 104 °F @ 760 mmHg

Flash Point No data available.

Evaporation Rate No data available.

Flammability (solid, gas) Not applicable.

Flammability or explosive limit

**Upper** : 22 % v/v **Lower** : 13 % v/v

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Vapor Pressure 350 mbar @ 20 °C

Vapor Density 2.93

**Density** No data available. **Soluble in water.** 

**Partition coefficient; n-octanol/water**No data available.
Autoignition Temp
556 °C / 1032.8 °F

**Decomposition Temp** >120°C

Viscosity 0.43 mPa.s @ 20°C

Molecular FormulaCH2Cl2Molecular Weight84.93 g/molVOC Content(%)No data available.

Oxidizing properties None.

## 9.2 Other safety information

None.

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

None known, based on information available

### 10.2 Chemical stability

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

## 10.3 Possibility of hazardous reactions

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.

### 10.4 Conditions to avoid

Incompatible products. Excess heat.

### 10.5 Incompatible materials

Strong oxidizing agents, strong acids, Amines, Aluminium.

## 10.6 Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO2), Hydrogen chloride gas, Phosgene.

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## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

### **Acute Toxicity**

### **Product Information Component Information**

Component	> 2000 mg/kg (Rat)	> 2000 mg/kg ( Rat )	LC50 Inhalation
Methylene chloride	LD50 Oral	LD50 Dermal	53 mg/L(Rat)6 h 76000 mg/m³(Rat)4 h

### Skin corrosion/irritation

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

## Serious eye damage/eye irritation

Irritating to eyes. Risk of corneal clouding.

## Respiratory or skin sensitization

No data available.

### Germ cell mutagenicity

No data available.

### Carcinogenicity

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Methylene chloride	75-09-2	Group 2A	Reasonably Anticipated	А3	Х	А3

## Reproductive toxicity

No data available.

## Specific target organ toxicity - single exposure

Central nervous system (CNS) Respiratory system

## Specific target organ toxicity - repeated exposure

No data available.

#### **Aspiration hazard**

No data available.

#### **Chronic effects**

No data available.

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### 11.2 Additional information

Dizziness, Nausea, Vomiting, narcosis, Cough, irritant effects, Unconsciousness, Shortness of breath, respiratory paralysis, somnolence, depressed respiration, CNS disorders, inebriation. Risk of corneal clouding. The following applies to aliphatic halogenated hydrocarbons in general: systemic effect: narcosis, cardiovascular disorders. Toxic effect on liver, kidneys. Dichloromethane is metabolized in the body producing carbon monoxide which increases and sustains carboxyhemoglobin levels in the blood, reducing the oxygen-carrying capacity of the blood. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## **SECTION 12. Ecological information**

## 12.1 Toxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Methylene chloride	EC50:>660 mg/L/96h	Pimephales promelas: LC50:193 mg/L/96h	EC50: 1 mg/L/24 h EC50: 2.88 mg/L/15 min	EC50: 140 mg/L/48h

## 12.2 Persistence and Degradability

Persistence is unlikely based on information available.

### 12.3 Bioaccumulative Potential

No data 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

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

## 12.6 Endocrine disrupting properties

No data available.

### 12.7 Other adverse effects

No data available.

Component	log Pow
Methylene chloride	1.25

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## **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. Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Methylene chloride - 75-09-2	U080	-

## **SECTION 14: Transport information**

DOT

UN-No UN1593

Proper Shipping Name DICHLOROMETHANE

Hazard Class 6.1 Packing Group III

**TDG** 

**UN-No** UN1593

Proper Shipping Name DICHLOROMETHANE

Hazard Class 6.1 Packing Group

<u>IATA</u>

**UN-No** UN1593

Proper Shipping Name DICHLOROMETHANE

Hazard Class 6.1 Packing Group III

IMDG/IMO

UN-No UN1593

Proper Shipping Name DICHLOROMETHANE

Hazard Class 6.1
Packing Group

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## **SECTION 15: Regulatory information**

All of the components in the product are on the following Inventory lists: X = listed

#### International Inventories

	Component	TSCA	DSL	NDSL	<b>EINECS</b>	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Г	Methylene chloride	Χ	Χ	-	200-838-9	-		Х	Χ	Х	Х	Χ

### **U.S. Federal Regulations**

**TSCA 12(b)** 

#### **SARA 313**

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Methylene chloride	75-09-2	>95	0.1

#### SARA 311/312 Hazard Categories

Acute Health Hazard

Chronic Health Hazard

Fire Hazard

Sudden Release of Pressure Hazard

No
Reactive Hazard

No

#### **CWA (Clean Water Act)**

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Methylene chloride	-	-	X	X

#### Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Methylene chloride	X		-

# OSHA Occupational Safety and Health Administration

Not applicable

Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Methylene chloride	125 ppm STEL	-
	12.5 ppm Action Level	
	25 ppm TWA	

## CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs	
Methylene chloride	1000 lb 1 lb	-	

## California Proposition 65 This product contains the following proposition 65 chemicals

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
Methylene chloride	75-09-2	Carcinogen	200 μg/day 50 μg/day	Carcinogen

#### U.S. State Right-to-Know

Regulations

. rogalationo					
Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Methylene chloride	X	X	X	Χ	X

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## **U.S. Department of Transportation**

Reportable Quantity (RQ):

DOT Marine Pollutant N
DOT Severe Marine Pollutant N

#### U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

#### Other International Regulations

Mexico - Grade No information available

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

D1B Toxic materials

D2A Very toxic materials



### **SECTION 16: Other information**

Issue Date 01/27/2010 Revision Date 06/30/2023

#### 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.

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