

# SAFETY DATA SHEET

### 1. Identification

Product identifier	DICHLOROMETHANE	
Other means of identification		
CAS number	75-09-2	
Synonyms	Methylene dichloride	
Recommended use	General purpose solvent.	
<b>Recommended restrictions</b>	Use in accordance with manufacturer's recommendations.	
Manufacturer/Importer/Supplier/I	Distributor information	
Company Name Address	Lab Alley LLC 22111 Highway 71 West, Suite 601 Spicewood, Texas 78669 USA	
Telephone	512-668-9918	

InfoTrac: 800-535-5053

### 2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Carcinogenicity	Category 2
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated exposure	Category 2 (liver, kidney, central nervous system)
OSHA defined hazards	Not classified.	

Label elements



#### Warning

Signal word Hazard statement

Causes skin irritation. Causes serious eye irritation. Suspected of causing cancer. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs (liver, kidney, central nervous system) through prolonged or repeated exposure.

Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If on skin: Wash with plenty of 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. If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

## 3. Composition/information on ingredients

### Substances

Chemical name	Common name and synonyms	CAS number	%
Dichloromethane	Methylene dichloride	75-09-2	100
Composition comments	All concentrations are in percent by weight unless otherwise indicated.		
4. First-aid measures			
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.		
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.		
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.		
Ingestion	Rinse mouth. Get medical attention if sympto	ms occur.	
Most important symptoms/effects, acute and delayed	May cause drowsiness and dizziness. Heada Symptoms may include stinging, tearing, redu respiratory irritation. Skin irritation. May cause chronic effects.	ness, swelling, and blurred vis	ion. May cause
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.		
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor i attendance.		
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).		
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.		
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed. Combustion products may include: 0 oxides. Phosgene. Hydrogen chloride.		
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full p	rotective clothing must be wor	n in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do containers cool.	so without risk. Use water spra	ay to keep fire-expos
Specific methods	Use standard firefighting procedures and con	sider the hazards of other inve	olved materials.
General fire hazards	No unusual fire or explosion hazards noted.		

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	This product is slightly soluble in water. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: 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. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

### **Occupational exposure limits**

Material	Regulated Substances Ty	•	•	lue	
Dichloromethane (CAS 75-09-2)	ST	EL	12	5 ppm	
	TΜ	/A	25	ppm	
US. ACGIH Threshold Li	imit Values				
Material	Ту	ре	Va	lue	
Dichloromethane (CAS 75-09-2)	TW	/A	50	ppm	
ological limit values					
ACGIH Biological Expos					
•	sure Indices Value	Determinant	Specimen	Sampling Time	
ACGIH Biological Expos		Determinant Dichlorometha ne	Specimen Urine	Sampling Time	
ACGIH Biological Expose Material Dichloromethane (CAS	Value 0.3 mg/l	Dichlorometha ne	•		

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Chemical goggles are recommended.

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.
Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have no been established), an approved respirator must be worn. Respirator type: Supplied-air respiration with full facepiece, helmet or hood. Wear appropriate thermal protective clothing, when necessary.	
Thermal hazards		
General hygiene considerations	Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	

### 9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Clear. Colorless.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-142.6 °F (-97 °C)
Initial boiling point and boiling range	104 °F (40 °C)
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	13 % v/v
Flammability limit - upper (%)	19 % v/v
Vapor pressure	470.9 hPa (353.2 mmHg) (68 °F (20 °C))
Vapor density	2.9
Relative density	1.325 g/ml (77 °F (25 °C))
Solubility(ies)	
Solubility (water)	slightly soluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	1033 °F (556.11 °C)
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Molecular formula	C-H2-Cl2
Molecular weight	84.93 g/mol
Oxidizing properties	Not oxidizing.
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Alkali metals. Caustics. Nitric acid.
Hazardous decomposition products	Toxic gases/vapors. Hydrogen chloride gas. Phosgene.

### 11. Toxicological information

### Information on likely routes of exposure

Inhalation	May cause drowsiness and dizziness. Headache. Nausea, vomiting. May cause irritation to the respiratory system. Prolonged inhalation may be harmful.	
Skin contact	Causes skin irritation.	
Eye contact	Causes serious eye irritation.	
Ingestion	May be harmful if swallowed.	
Symptoms related to the physical, chemical and toxicological characteristics	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.	

### Information on toxicological effects

Acute toxicity	May be harmful if swallowed.	
Product	Species	Test Results
Dichloromethane (CAS 75-09-2)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg
Inhalation		
Vapor	D.I	
LD50	Rat	59.9 mg/l, 4 hours
Oral	D.1	
LD50	Rat	> 2000 mg/kg
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitization	n	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected	to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	Suspected of causing cancer	
IARC Monographs. Overall	Evaluation of Carcinogenicity	,
Dichloromethane (CAS 7 NTP Report on Carcinogens		2A Probably carcinogenic to humans.
Dichloromethane (CAS 75-09-2) Reasonably Anticipated to be a Human Carcinogen. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)		
Dichloromethane (CAS 7	5-09-2)	Cancer
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	May cause respiratory irritation. May cause drowsiness and dizziness.	
Specific target organ toxicity - repeated exposure	May cause damage to organs (liver, kidney, central nervous system) through prolonged or repeated exposure.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.	
12. Ecological information	ı	

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product		Species	Test Results		
Dichloromethane (CAS 75-09	-2)				
Aquatic					
Acute					
Crustacea	LC50	Daphnia magna	220 mg/l, 48 hours		
Fish	LC50	Pimephales promelas	193 mg/l, 96 hours		
Persistence and degradability	No data is ava	No data is available on the degradability of this substance.			
Bioaccumulative potential	No data available for this product.				
Mobility in soil	The product is	s slightly soluble in water.			
Other adverse effects		No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.			
13. Disposal consideration	ns				
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.				
Local disposal regulations	Dispose in ac	Dispose in accordance with all applicable regulations.			
Hazardous waste code		The waste code should be assigned in discussion between the user, the producer and the waste disposal company.			
US RCRA Hazardous Waste	e U List: Refere				
Dichloromethane (CAS 7		U080			
Waste from residues / unused products	product residu	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).			
Contaminated packaging		Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or			
14. Transport information					
DOT					
UN number	UN1593				
UN proper shipping name	Dichlorometha	Dichloromethane (RQ = 1,000 lbs)			
Transport hazard class(es)					
Class Subsidiary risk	6.1(PGIII) -				
Label(s)	6.1	6.1			
Packing group	III				
Environmental hazards					
Marine pollutant		No.			
Special provisions for use		Read safety instructions, SDS and emergency procedures before handling. IB3, IP8, N36, T7, TP2			
Packaging exceptions	153	, ,			
Packaging non bulk	203	203			
Packaging bulk	241				
UN number UN proper shipping name Transport hazard class(es)		UN1593 Dichloromethane			
Class	6.1(PGIII)				
Subsidiary risk	-				
Packing group					
Environmental hazards ERG Code	NO. 6L	No. 6l			
		6L r Read safety instructions, SDS and emergency procedures before handling.			
UN number	UN1593				
UN proper shipping name Transport hazard class(es)	DICHLOROMETHANE				
Class	6.1(PGIII)				

Subsidiary risk	-		
Packing group Environmental hazards	III		
	No.		
Marine pollutant EmS	F-A, S-A		
Special precautions for use	•	ns. SDS and emergency	procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.	,	,
15. Regulatory information	n		
US federal regulations	This product is a "Haza Standard, 29 CFR 191		fined by the OSHA Hazard Communication
TSCA Section 12(b) Export	Notification (40 CFR 70	7, Subpt. D)	
Dichloromethane (CAS 7	5-09-2)	0.1 % Annual	Export Notification required.
CERCLA Hazardous Substa	•	)	
Dichloromethane (CAS 7 SARA 304 Emergency relea		Listed.	
Not regulated.			
OSHA Specifically Regulate	•	1910.1001-1053)	
Dichloromethane (CAS 7	5-09-2)	Cancer	
		Heart Central nervou	is system
		Liver	
		Skin irritation Eye irritation	
SARA 302 Extremely hazard Not listed. SARA 311/312 Hazardous chemical	Yes		
Classified hazard categories	Skin corrosion or irritation Serious eye damage or eye irritation Carcinogenicity		
	Specific target organ to	oxicity (single or repeate	ed exposure)
SARA 313 (TRI reporting)			
Chemical name		CAS number	% by wt.
Dichloromethane		75-09-2	100
Other federal regulations			
Clean Air Act (CAA) Sectior		llutants (HAPs) List	
Dichloromethane (CAS 7			
Clean Air Act (CAA) Sectior Not regulated.	1112(r) Accidental Rele	ease Prevention (40 CF	·R 68.130)
Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)	Priority pollutant Toxic pollutant		
Safe Drinking Water Act (SDWA)	0 mg/l 0.005 mg/l		
US state regulations			
US. Massachusetts RTK - S	ubstance List		
Dichloromethane (CAS 7 US. New Jersey Worker and		Know Act	
Dichloromethane (CAS 7			
US. Pennsylvania Worker a Dichloromethane (CAS 7	nd Community Right-to	-Know Law	
	- /		

### US. Rhode Island RTK

Dichloromethane (CAS 75-09-2)

#### **California Proposition 65**



**WARNING:** This product can expose you to Dichloromethane, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

#### California Proposition 65 - CRT: Listed date/Carcinogenic substance

Dichloromethane (CAS 75-09-2) Listed: April 1, 1988 US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Dichloromethane (CAS 75-09-2)

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information, including date of preparation or last revision

Issue date	17-October-2018
Revision date	-
Version #	01
HMIS® ratings	Health: 2 Flammability: 1 Physical hazard: 0
Disclaimer	This product is subject to Lab Alley LLC terms and conditions, which can be found at https://www.laballey.com/pages/terms-conditions. Lab Alley can not anticipate all conditions under which this information and this product, or the products of other manufacturers in combination with this product, may be used. The user is responsible for the proper and safe use, handling, storage and disposal of the product, and assumes liability for any loss, injury, damage or expense arising from any failure to do so. The data in this sheet is based on information and experience available at thetime of writing.