

MATERIAL SAFETY DATA SHEET

Dichloromethane (Methylene Chloride)

SECTION 1 . Product and Company Identification

Product Name and Synonym: Dichloromethane (Methylene Chloride)

Product Code: D4648

Material Uses:

Manufacturer: Science Stuff
1104 Newport Ave

Austin, TX 78753

(512) 837-6020

Entry Date : 6/3/2013

Print Date: 6/3/2013

24 Hour Emergency Assistance : Chemtrec 800-424-9300
Canutec 613-996-6666

Health:	3
Flammability:	1
Reactivity:	0

Hazard Rating:
Least Slight Moderate High Extreme
0 1 2 3 4
NA=Not Applicable NE=Not Established

SECTION 2 HAZARD IDENTIFICATION

Keep away from heat and ignition sources. May be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input checked="" type="checkbox"/>	Dichloromethane (Methylene Chloride)	CAS# 75-09-2	100%	W/W	OSHA TWA 25 ppm, STEL (C) 25 ppm

SECTION 4 FIRST AID MEASURES

Keep away from heat and ignition sources. May be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

FIRST AID: CALL A PHYSICIAN. SKIN: Remove contaminated clothing. Wash exposed area with soap and water.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person.

SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Water spray, Carbon dioxide, dry chemical, powder, foam.

Fire / Explosion Hazards: Vapors may form explosive mixture with air.

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

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SECTION 6 ACCIDENTAL RELEASE MEASURES

Eliminate Ignition Sources. Neutralize with: Soda lime, soda ash. Absorb with vermiculite or other inert material. Place in container.

SECTION 7 HANDLING AND STORAGE

Store in a cool dry well ventilated area. Keep away from heat and flame. Do not get in eyes, on skin, or on clothing.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: NIOSH/MSHA-approved respirator
Ventilation
Local Exhaust
Mechanical
Protective Gloves: NIOSH Approved Gloves, impervious to Organics
Eye Protection: Splash Goggles
Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	-142° F	Percent Volatile by Volume:	100%
Boiling Point:	104° F	Evaporation Rate	not available
Vapor Pressure:	350	Evaporation Standard	
Vapor Density:	2.9	Auto Ignition Temp	1033 F (556° C)
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	12% (V)
Appearance /Odors:	colorless liquid, ethereal odor	Upper Flamm. Limit in Air	19% (V)
Flash Point:	N/A		
Specific Gravity:	1.325		

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability: Stable
Conditions to Avoid: Avoid contact with incompatible materials.
Materials to Avoid: oxidizers, nitrogen tetroxide, liquid oxygen, metals, urea
Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, phosgene gas,
Hazardous polymerization: Will Not Occur
Conditions to Avoid: None known

SECTION 11 Toxicological Information

Acute oral toxicity : LD50 rat
Dose: 1,600 mg/kg
Acute dermal toxicity : LD50 rat
Dose: > 2,000 mg/kg

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Acute inhalation toxicity : LC50 mouse
Dose: 14400 ppm
Exposure time: 7 h
Skin irritation : rabbit
Moderate skin irritation
Eye irritation : rabbit
Moderate eye irritation
Additional advice : Confirmed animal carcinogen with unknown relevance to humans

SECTION 12 Ecological Information

Toxicity to fish : flow-through test LC50
Species: Fathead minnow
Dose: 330 mg/l
Exposure time: 96 h
Toxicity to fish : flow-through test LC50
Species: Oncorhynchus mykiss (rainbow trout)
Dose: 10.95 mg/l
Exposure time: 96 h
Toxicity to fish : static test LC50
Species: Bluegill sunfish
Dose: 220 mg/l
Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates.
: static test EC50
Species: Daphnia magna (Water flea)
Dose: 140 mg/l
Exposure time: 48 h
Toxicity to bacteria : EC50
Species: Photobacterium phosphoreum
Dose: 1,000 mg/l
Exposure time: 15 min

SECTION 13 Disposal Considerations

Waste Information: Avoid contact of spilled material and runoff with soil and surface waterways.
Consult an environmental professional to determine if local, regional or national regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporters, recyclers, treatment, storage or disposal facilities. Dispose of according to all federal, state and local applicable regulations.
Other Disposal Considerations: Observe all Federal, State, and Local Environmental regulations.
The information offered here is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

SECTION 14 Transport Information

DOT Proper shipping name : DICHLOROMETHANE
UN-Number : 1593
Class : 6.1
Packing group : III
IATA UN Number : 1593
Description of the goods : DICHLOROMETHANE
Class : 6.1
Packaging group : III
Hazard Label : 6.1
Packing instruction (cargo aircraft)
: 612
Packing instruction (passenger aircraft)
: 605
Packing instruction (passenger aircraft)
: Y605
IMDG Substance No. : UN 1593
Description of the goods : DICHLOROMETHANE

Dichloromethane (Methylene Chloride)

Class : 6.1
Packaging group : III
Hazard Label : 6.1
EmS Number : F-A
Marine pollutant : no

DOT Classification: Dichloromethane, 6.1, UN1593, PG III

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

SECTION 15 Regulatory Information

Inventories
EU. EINECS
: On or in compliance with the inventory
US. Toxic Substances
Control Act
: On TSCA Inventory
Australia. Industrial
Chemical (Notification and
Assessment) Act
: On or in compliance with the inventory
Canada. Canadian
Environmental Protection
Act (CEPA). Domestic
Substances List (DSL).
(Can. Gaz. Part II, Vol. 133)
: All components of this product are on the Canadian DSL list.
Japan. Kashin-Hou Law List : On or in compliance with the inventory
Korea. Toxic Chemical
Control Law (TCCL) List
: On or in compliance with the inventory
Philippines. The Toxic
Substances and Hazardous
and Nuclear Waste Control
Act
: On or in compliance with the inventory
China. Inventory of Existing
Chemical Substances
: On or in compliance with the inventory
Switzerland. Consolidated
Inventory
: On or in compliance with the inventory
New Zealand. Interim
Inventory of Chemicals (as
published by ERMA new
Zealand)
: On or in compliance with the inventory
National regulatory information
SARA 313 Components : Dichloromethane 75-09-2
SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard
CERCLA Reportable
Quantity
: 1000 lbs
California Prop. 65 : WARNING! This product contains a chemical known in the State
of California to cause cancer.
Dichloromethane 75-09-2
Massachusetts RTK : Dichloromethane 75-09-2
New Jersey RTK : Dichloromethane 75-09-2
Pennsylvania RTK : Dichloromethane 75-09-2
WHMIS Classification : D1B
D2A
D2B

SECTION 16 Additional Information

Dichloromethane (Methylene Chloride)

Flammability

Health

Reactivity

Revisions

NFPA

	0.2	Creation date LS
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