

1 PRODUCT AND COMPANY IDENTIFICATION

1. PR	CODUCT AND COMPANY ID	JENTIFICATION	
1.1	<b>Product identifiers</b> Product name	Methylene Chloride	
	CAS-No.	: 75-09-2	
1.2	Relevant identified uses of	of the substance or mixture and uses advised against	
	Identified uses	: Laboratory chemicals, Manufacture of substances	
1.3	Details of the supplier of the safety data sheet		
	Company	: Solvents and Petroleum Service, Inc. 1405 Brewerton Rd. Syracuse, NY 13208	
	Telephone Fax	: 800-315-4467 : 315-454-8230	
1.4	Emergency telephone nu	mber	
	Emergency Phone #	: Chemtrec 800-424-9300	

## 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

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

Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Carcinogenicity (Category 2), H351 Specific target organ toxicity - single exposure (Category 3), Respiratory system, Central nervous system, H335, H336 Specific target organ toxicity - repeated exposure, Oral (Category 2), Liver, Blood, H373 Specific target organ toxicity - repeated exposure, Inhalation (Category 2), Central nervous system, H373

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Warning

nazalu statement(s)	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs (Liver, Blood) through prolonged or repeated exposure if swallowed.
H373	May cause damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.

Precautionary statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ eye protection/ face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P321	Specific treatment (see supplemental first aid instructions on this label).
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P403 + P233 P405	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

# 3.1 Substances

Molecular weight	:	84.93 g/mol
CAS-No.	:	75-09-2
EC-No.	:	200-838-9
Index-No.	:	602-004-00-3
	-	

#### Hazardous components

Component	ponent Classification Concentration		
Methylene chloride			
	Skin Irrit. 2; Eye Irrit. 2A; Carc. 2; STOT SE 3; STOT RE 2; H315, H319, H335, H336, H351, H373, H373	<= 100 %	

For the full text of the H-Statements mentioned in this Section, see Section 16.

# **4. FIRST AID MEASURES**

## 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance .Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

## In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11

## **4.3 Indication of any immediate medical attention and special treatment needed** No data available

## **5. FIREFIGHTING MEASURES**

#### 5.1 Extinguishing media

## Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture No data available

# 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information No data available

## 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

## 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

- 6.3 Methods and materials for containment and cleaning up Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections

For disposal see section 13.

## 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Store at Room Temperature.

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

#### Components with workplace control parameters

Components with workplace control parameters				
Component	CAS-No.	Value	Control	Basis
			parameters	
	Remarks	Potential Occ	cupational Carcino	gen
		See Appendi	хĂ	-
Methylene chloride	75-09-2	TWA	50.000000 ppm	USA. ACGIH Threshold Limit Values
				(TLV)
		Central Nervous System impairment		
		Carboxyhem	oglobinemia	
		Substances for which there is a Biological Exposure Index or Indice		
		(see BEI® se	ection)	-
		Confirmed an	nimal carcinogen w	vith unknown relevance to humans

TWA	50 ppm	USA. ACGIH Threshold Limit Values (TLV)
Central Nervous System impairment Carboxyhemoglobinemia Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed animal carcinogen with unknown relevance to humans		
1910.1052	,	mation see OSHA document
1910.1052		mation see OSHA document
See Table Z- PEL	2 25.000000 ppm	OSHA Specifically Regulated Chemicals/Carcinogens
chloride (MC 2, in general Methylene ch formula, CH2 75-09-2. Its r	), Chemical Abstra industry, construct nloride (MC) mean	
STEL	125.000000 ppm	OSHA Specifically Regulated Chemicals/Carcinogens
chloride (MC 2, in general Methylene ch formula, CH2 75-09-2. Its r	), Chemical Abstra industry, construct nloride (MC) mean	

## **Biological occupational exposure limits**

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Methylene chloride	75-09-2	Dichlorometh ane	0.3000 mg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (As	soon as po	ssible after exposure	ceases)

## 8.2 Exposure controls

# Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Personal protective equipment

#### **Eye/face protection**

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

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

### **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Color: colorless
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	-97.0 °C (-142.6 °F)
f)	Initial boiling point and boiling range	40.0 °C (104.0 °F) at 1,013.2 hPa (760.0 mmHg)
g)	Flash point	No data available
h)	Evaporation rate	0.71
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 19 %(V) Lower explosion limit: 12 %(V)
k)	Vapor pressure	470.9 hPa (353.2 mmHg) at 20.0 °C (68.0 °F)
I)	Vapor density	2.93 - (Air = 1.0)
m)	Relative density	1.32 g/cm3
n)	Water solubility	slightly soluble
o)	Partition coefficient: n- octanol/water	log Pow: 1.25
p)	Auto-ignition temperature	556.1 °C (1,033.0 °F) 662.0 °C (1,223.6 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available
Oth	ner safety information	
	Relative vapor density	2.93 - (Air = 1.0)

#### **10. STABILITY AND REACTIVITY**

#### 10.1 Reactivity

9.2

No data available

## 10.2 Chemical stability

Stable under recommended storage conditions. Stable under recommended storage conditions.

- **10.3 Possibility of hazardous reactions** No data available
- **10.4** Conditions to avoid Heat, flames and sparks. Exposure to sunlight.

## 10.5 Incompatible materials

Alkali metals, Aluminum, Strong oxidizing agents, Bases, Amines, Magnesium, Strong acids and strong bases, Vinyl compounds

**10.6 Hazardous decomposition products** Other decomposition products - No data available In the event of fire: see section 5

# **11. TOXICOLOGICAL INFORMATION**

#### 11.1 Information on toxicological effects

## Acute toxicity

No data available

LD50 Oral - Rat - > 2,000 mg/kg

Inhalation: No data available

LC50 Inhalation - Rat - 52,000 mg/m3

Dermal: No data available

LD50 Dermal - Rat - > 2,000 mg/kg (OECD Test Guideline 402)

No data available

No data available

#### Skin corrosion/irritation

No data available

Skin - Rabbit Result: Irritating to skin. - 24 h (Draize Test)

#### Serious eye damage/eye irritation

No data available

Eyes - Rabbit Result: Irritating to eyes. - 24 h (Draize Test)

#### **Respiratory or skin sensitisation** No data available

No data available

Germ cell mutagenicity No data available

Rat DNA damage

#### Carcinogenicity

Carcinogenicity - Rat - Inhalation Tumorigenic:Carcinogenic by RTECS criteria. Endocrine:Tumors.

Limited evidence of carcinogenicity in animal studies

Suspected human carcinogens

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Methylene chloride)

NTP: Reasonably anticipated to be a human carcinogen (Methylene chloride)

OSHA: OSHA specifically regulated carcinogen (Methylene chloride)

Reproductive toxicity

No data available No data available

No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

# Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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., Acts as a simple asphyxiant by displacing air., anesthetic effects, Difficulty in breathing, Headache, Dizziness, Prolonged or repeated contact with skin may cause:, defatting, Dermatitis, Contact with eyes can cause:, Redness, Blurred vision, Provokes tears., Effects due to ingestion may include:, Gastrointestinal discomfort, Central nervous system depression, Paresthesia., Drowsiness, Convulsions, Conjunctivitis., Pulmonary edema. Effects may be delayed., Irregular breathing., Stomach/intestinal disorders, Nausea, Vomiting, Increased liver enzymes., Weakness, Heavy or prolonged skin exposure may result in the absorption of harmful amounts of material., Abdominal pain

Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence

# **12. ECOLOGICAL INFORMATION**

#### 12.1 Toxicity

12.2

No data available

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 193.00 mg/l - 96 h		
	NOEC - Cyprinodon variegatus (sheepshead minnow) - 130 mg/l - 96 h		
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 1,682.00 mg/l  - 48 h		
<b>Persistence and degrac</b> No data available	lability		

- **12.3 Bioaccumulative potential** No data available
- 12.4 Mobility in soil No data available

# 12.5 Results of PBT and vPvB assessment

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

# 12.6 Other adverse effects

No data available

# **13. DISPOSAL CONSIDERATIONS**

## 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

## **Contaminated packaging**

Dispose of as unused product.

# 14. TRANSPORT INFORMATION

DOT (US) UN number: 1593 Class: 6.1 Proper shipping name: Dichloromethane Reportable Quantity (RQ): 1000 lbs	Packing group: III			
Poison Inhalation Hazard: No				
IMDG UN number: 1593 Class: 6.1 Proper shipping name: DICHLOROMETHANE	Packing group: III	EMS-No: F-A, S	S-A	
IATA UN number: 1593 Class: 6.1 Proper shipping name: Dichloromethane	Packing group: III			
15. REGULATORY INFORMATION				
SARA 302 Components No chemicals in this material are subject to the	reporting requirements of	f SARA Title III, Sectio	n 302.	
SARA 313 Components The following components are subject to report	The following components are subject to reporting levels established by SARA Title III, Section 313:			
Methylene chloride	CAS- 75-09		on Date )7-01	
SARA 311/312 Hazards Acute Health Hazard, Chronic Health Hazard				
Massachusetts Right To Know Components				
Methylene chloride	CAS- 75-09		on Date	
•	75-08	3-2 2007-0	<i>JT-</i> 01	
Pennsylvania Right To Know Components	CAS-	No Revisi	on Date	
Methylene chloride	75-09			
New Jersey Right To Know Components				
Methylene chloride	CAS- 75-09		on Date 07-01	
<b>California Prop. 65 Components</b> WARNING! This product contains a chemical k State of California to cause cancer. Methylene chloride	nown to the CAS- 75-09		on Date )9-28	

## **16. OTHER INFORMATION**

## Full text of H-Statements referred to under sections 2 and 3.

Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure

#### **HMIS** Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0
NFPA Rating	
<b>NFPA Rating</b> Health hazard:	2
	2 0

#### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Solvents and Petroleum Service, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.