

## 1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** Methylene Chloride
- **Manufacturer/Supplier:**  
Petrochem Middle East FZE  
PO Box 17028,  
Jebel Ali Free Zone  
Dubai, UAE  
Ph +971 4 8839222; Fax +971 4 8834133
- **Further information obtainable from:** Product safety department.
- **Information in case of Emergency** Product safety department.

## 2 Composition/information on ingredients

- **Chemical characterization:**
- **CAS No. Description**  
75-09-2 dichloromethane
- **Identification number(s)**
- **EINECS Number:** 200-838-9
- **Index number:** 602-004-00-3

## 3 Hazards identification

- **Hazard description:**



Carc. Cat. 3  
Xn Harmful

- **Information concerning particular hazards for human and environment:**  
R 40 Limited evidence of a carcinogenic effect.

## 4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

## 5 Fire-fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.

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### 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.

### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

#### 75-09-2 dichloromethane

PEL (USA)	Short-term value: 125 ppm Long-term value: 25 ppm see 29 CFR 1910.1052
REL (USA)	LFC
TLV (USA)	174 mg/m <sup>3</sup> , 50 ppm BEI
WEL (Great Britain)	Short-term value: 1060 mg/m <sup>3</sup> , 300 ppm Long-term value: 350 mg/m <sup>3</sup> , 100 ppm Sk

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Safety glasses

UAE

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## 9 Physical and chemical properties

### · General Information

**Form:** Fluid  
**Colour:** Colourless  
**Odour:** Like chlorine

### · Change in condition

**Melting point/Melting range:** -95.1°C  
**Boiling point/Boiling range:** 40°C

· **Flash point:** Not applicable.

· **Ignition temperature:** 605°C

· **Danger of explosion:** Product does not present an explosion hazard.

### · Explosion limits:

**Lower:** 13 Vol %  
**Upper:** 22 Vol %

· **Vapour pressure at 20°C:** 453 hPa

· **Density at 20°C:** 1.33 g/cm<sup>3</sup>

· **Solubility in / Miscibility with water at 20°C:** 20 g/l

### · Viscosity:

**Dynamic at 22°C:** 0.43 mPas

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

### · Acute toxicity:

#### · LD/LC50 values relevant for classification:

Oral	LD50	1600 mg/kg (rat)
Inhalative	LC50/4 h	88 mg/l (rat)

### · Primary irritant effect:

- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

## 12 Ecological information

### · General notes:

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water  
 Do not allow product to reach ground water, water course or sewage system.  
 Danger to drinking water if even small quantities leak into the ground.

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### 13 Disposal considerations

- **Product:**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 6.1 Toxic substances.
- **Danger code (Kemler):** 60
- **UN-Number:** 1593
- **Packaging group:** III
- **Hazard label:** 6.1
- **Description of goods:** 1593 DICHLOROMETHANE

- **Maritime transport IMDG:**



- **IMDG Class:** 6.1
- **UN Number:** 1593
- **Label** 6.1
- **Packaging group:** III
- **EMS Number:** F-A,S-A
- **Marine pollutant:** No
- **Proper shipping name:** DICHLOROMETHANE

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 6.1
- **UN/ID Number:** 1593
- **Label** 6.1
- **Packaging group:** III
- **Proper shipping name:** DICHLOROMETHANE

### 15 Regulatory information

- **Labelling according to EU guidelines:**  
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

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**Trade name: Methylene Chloride**

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**· Code letter and hazard designation of product:**

Carc. Cat. 3  
Xn Harmful

**· Risk phrases:**

40 Limited evidence of a carcinogenic effect.

**· Safety phrases:**

2 Keep out of the reach of children.

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

24/25 Avoid contact with skin and eyes.

36/37 Wear suitable protective clothing and gloves.

**16 Other information**

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Department issuing MSDS:** Product safety department

· **Contact:** Mr. Menon