



MATERIAL SAFETY DATA SHEET

METHYLENE CHLORIDE

Revision Number : 00

Revision Date: 00

Issuing Date: 01.01.2014

Section 1 - Chemical Product and Company Identification

Product identifier

Product Name : METHYLENE CHLORIDE
Synonyms : Dichloromethane, Methylene Dichloride, Methylne Bichloride, Methane Dichloride
CAS No. : 75-09-2
Chemical Formula : CH₂CL₂
Product Use : Paint remover formulations, vapor depressant in aerosol applications, general cleaning solvent, foam blowing agent
Contact : **PT.Pancasakti Putra Kencana**
Address : Ruko Boulevard Taman Tekno Blok E No.10-11,BSD Sektor XI Serpong, Tangerang - Indonesia
Website : www.pancasakti.co.id
Email : sales@pancasakti.co.id
For information : Telp: +62-21- 7588 0205(Hunting) , fax:+62-21-7588 0198
Emergency Telephone : +62-21-7588 0205(Hunting)

Section 2 - Composition, Information on Ingredients

Ingredient	CAS#	WE No	Classification	R-Phrases	Conc.%(Weight)
Methylene Chloride (Dichloromethane)	75-09-2	200-838-9	Xn	40	100

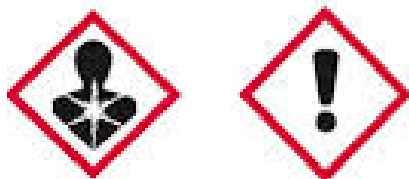
Full text of R-phrases and symbols can be found in the section 16. of MSDS

Section 3 - Hazards Identification

Irritating to eyes, inhalation and skin. Suspicion of causing cancer.

Classification according to GHS

Symbol(s)



HAZARDOUS

Hazardous: H315 Irritating to skin.
H319 Irritating to eyes.



Prevention:	H335 May be irritating to inhalation H336 May cause sleepiness and dizziness. H351 Suspicion of causing cancer. H373 May cause organs damage through long or repeated exposure P201 Before use know special treatments. P261 Avoid breathe smoke/gas/burning liquid. P271 Use only outside or in well-ventilated area. P281 Use individual protection equipment. P304+340 IN CASE OF RESPIRATORY SYSTEM CONTACT: Take out injured to fresh air and provide comfortable space for proper breathing.
Storage:	P405 Store container closed P501 Content/container remove according to local regulations

Section 4 - First Aid Measures

General indicators:	Do not give anything oral to unconscious person. Lay down comfortable, help breathing and call a doctor.
After inhalation:	Provide access to fresh air. Call a doctor.
After eye contact:	Immediately flush eyes with plenty of water for at least 10 minutes. Avoid strong stream of water due to the risk of mechanical damage to the cornea.
Contact a doctor immediately..	
After skin contact:	Take off contaminated clothing. Rinse skin with plenty of water. In the case of irritation, contact your doctor.
After ingestion:	Rinse mouth by water. Do not induce vomiting. Contact your doctor

Section 5 - Firefighting Measures

Adequate fire-fighting measures:	powders and fire-fighting foam, carbon dioxide.
Fire-fighting measures, which must not be used for safety reasons:	Not specified
Hazardous decomposition products:	Hard flammable liquid. Vapors may be explosive in contact with oxygen in high temperature. In case of fire generates hazardous decomposition products.
Special protective equipment:	In case of fire substances harmful to health can be produced. Put on protective gastight clothing and breathing apparatus complete with a full face mask.

Section 6 - Accidental Release Measures

Individual precautions:	Avoid contact with eyes and skin. Provide for the exchange of air (ventilation). Proceed in accordance with the principles of safety and health at work with chemicals. Use personal protective equipment as stated in paragraph 8.
Precautions concerning environment protection:	In the event of a failure, do not allow discharges into the environment. Secure the product before it enters the sewers, groundwater, soil.
Cleaning method:	Protect gullies; vapors dilute by stream of water, remove ignition source (put out fire, announce smoke prohibition and usage of ignition tools); if possible eliminate leak (stop liquid inflow, seal, damage packaging place in sealed protective container); in case of major



leak, protect place of leak, pump off liquid; small leak cover up by non-flammable absorbed material, take in to lockedup container. Contaminated area rinse by water

Section 7 - Handling and Storage

Dealing with preparation: Proceed in accordance with the principles of good practice and in compliance with health and safety. While using of the device do not eat, drink or smoke, avoid eye and skin contact with the liquid, personal protective equipment (as defined in section 8).

Protection against the fire and explosion: Hard flammable substance

Storage: Store in cool area, storage shelf.

Section 8 - Exposure Controls, Personal Protection

Respiratory protection: Necessary – at major concentration

Eye protection: Necessary - such as goggles

Skin protection: Necessary - gloves and appropriate protective clothing - lab coat.

Other information: While using the preparation avoid eye and skin exposure, do not consume meals and beverages, do not smoke.

Section 9 - Physical and Chemical Properties

Physical form
at temp. 20°C: liquid

Color: colorless

Odor: sweet (similar to chloroform)

pH: not specified

Melting point: -95 °C

Boiling point: 40 °C

Flash point: 605°C

Explosive point: not specified

Density at temp. 25°C: 1,32 g/cm³

Vapor density: 2,93

Vapor pressure
at temp. 25°C: 584 hPa

Solubility in water
at temp. 25°C: 13,2 g/l

Solubility in other solvents: ood win ethylene alcohol, methanol, ether ethylene, acetone, carbon tetrachloride, benzene.

Viscosity at temp. 25°C: 0,420 mPas

Division factor
n-oktanol/water (log): 1,25

Section 10 - Stability and Reactivity

Stability: Product stable under normal conditions of use and storage.

Materials and conditions that must be avoided: High temperature, humidity, strong acids, strong oxidants, light metals, perchloric acid, nitrogen acid.



Hazardous decomposition products:

At high temperature may release carbon dioxide, phosgene, hydrogen chloride.

Section 11 - Toxicological Information

Inhalation:

LC 50 (rat) – 52 g/m³

May cause irritation to respiratory system and sleepiness or dizziness, may cause heart arrhythmia; strong concentration vapor inhalation May cause headache and dizziness, weakness, nausea, vomit; risk of lung edema and chemical pneumonia; repeated and longlasting exposure may affect central nervous system.

Ingestion:

LD 50 (rat) – 1600 mg/kg

LD 50 (human) – 357 mg/kg

May cause irritation to ingestion system, nausea, vomits and diarrhea, risk of major liver and kidneys failure and loss of consciousness.

Skin:

LD50 (rat): 2000 mg/kg

Irritation, product may be absorbed by skin; repeated exposure may cause dryness and skin cracks.

Eyes:

Avoid eye contact. Irritant to eyes.

Carcinogenic:

carcinogenic effect to human not specified. Category 3. Mice: long-lasting inhalation – possible cancer risk, exposed organs: liver.

Reprotoxic:

not specified

Toxicity to organs – single exposure:

during inhalation respiratory system exposure, vapor May cause sleepiness and dizziness.

Toxicity to organs – repeated exposure:

harmful after inhalation and after swallow; risk of severe health system after long-lasting exposure.

Other information

None of the ingredients of the product is classified as carcinogenic, mutagenic or reprotoxic.

Section 12 - Ecological Information

Ecotoxicology:

LC50: 193 mg/l/96h (fresh water, fish Pimephales promelas)

LC50: 97 mg/l/96h (sea water, fish Fundulus heteroclitus)

EC50: 27 mg/l (fresh water, seashells Daphnia magna)

EC50: 109 mg/l (sea water, seashells Pimephales promelas)

EC50: 590 mg/l/ (fresh water, algae Microcystis aeruginowa)

Bioaccumulation:

Not determined

Biodegradation: D

ifficult biodegradable Elimination 5-26 %/28 days

Other information:

Prevent product from entering sewers, groundwater, soil.

Section 13 - Disposal Considerations

Dispose of in compliance with governmental regulation or return to the producer.

Section 14 - Transport Information

The product is subject to regulations for hazardous materials.

Transport by road (ADR/RID) –6.1. class packaging III UN 1593

Dichloromethane (Methylene chloride), colorless liquid, light toxic

Maritime transport (IMDG) – NA

Air transport (ICAO/IATA) – NA



Section 15 - Regulatory Information

Product has to be labeled



HAZARDOUS

Hazardous: H315 Irritating to skin.
H319 Irritating to eyes.
H335 May be irritating to inhalation
H336 May cause sleepiness and dizziness.
H351 Suspicion of causing cancer.
H373 May cause organs damage through long or repeated exposure

General information: The product intended for use only by qualified medical personnel, as recommended by the manufacturer

NOTE: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the material safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

Section 16 - Additional Information

GHS Hazard statements

H302 Harmful if swallowed.
H373 May cause damage to organs or organ systems through prolonged or repeated exposure.

Explanation of symbols and phrases appearing in section 3:

Xn Harmful substance
R 40 Limited evidence of carcinogenic impact

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall PT.Pancasakti Putera Kencana be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if PT.Pancasakti Putera Kencana has been advised of the possibility of such damages.