

SAFETY DATA SHEET

Section 1: IDENTIFICATION

Product Name: Methylene Chloride

Product Code: DCM-XXX

MSDS Date: February 9, 2023

Use: This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA 3(13)) for consumer paint or coating removal.

BVV

1251 Frontenac Rd

Naperville IL 60563

General Information: 331-281-0154

CHEMTEL: 800-424-9300

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

GHS Classification:

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

GHS Labeling



Symbol:

Signal Word: Warning

Hazard Statements:

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 through prolonged or repeated exposure

Precautionary Statements:

Prevention:

Do not breathe mist/vapors/spray.

Do not handle until all safety precautions have been read and understood.

Obtain special instructions before use.

Use only outdoors or in a well-ventilated area.

Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Response:

Get medical advice/attention if you feel unwell.

If exposed or concerned: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If on skin: Wash with plenty of water.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Storage:

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

Potential Health Effects: See Section 11 for more information

This product does contain carcinogens or potential carcinogens as listed by OSHA, IARC, or NTP.

This material contains components that are considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Environmental Effects: See Section 12 for more information.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

No.	Component CAS REG. NO.	Amount %	OSHA		ACGIH	
			TWA	STEL	TWA	STEL
1	Dichloromethane CAS #75-09-2	90-100	25 ppm (action level 12.5 ppm)	125 ppm	50 ppm	Not Availab le

Section 4: FIRST AID MEASURES

Emergency first aid procedures by route of exposure:

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.

Most important symptoms and effects, both acute and delayed

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

Indication of any immediate medical attention and special treatment needed

no data available

Section 5: FIRE FIGHTING MEASURES

Flash Point: >200F
Lower Explosion Limit: Not Available
Upper Explosion Limit: Not Available
Flammability Classification: Not Available

Extinguishing media

Suitable extinguishing media

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

Special hazards arising from the substance or mixture

Carbon oxides, Hydrogen chloride gas

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

HAZARD	HMIS	NFPA
Toxicity	3	3
Fire	1	1
Reactivity	0	0

Section 6: ACCIDENTAL RELEASE MEASURES

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.

Environmental precautions

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

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.

Section 7: HANDLING AND STORAGE

Precautions for safe handling

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

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.

Heat sensitive.

Specific end use(s)

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

Section 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protective Equipment (PPE)

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.

Splash contact

Material: Fluorinated rubber

Minimum layer thickness: 0.7 mm

Break through time: 148 min

Material tested: Vitoject® (KCL 890 / Aldrich Z677698, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

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.

See section 3 for exposure limits

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance, State	Clear liquid
Color	Colorless
Odor	Not Available
pH	Not Available
Vapor Density (Dichloromethane)	2.93 (air=1)
Boiling Point (Dichloromethane)	39.8°C
Vapor Pressure (Dichloromethane)	400 mmHg at 24°C
Melting Point (Dichloromethane)	-96.7°C
Freezing Point	Not Available
Flash Point (See Section 5)	
Flammability Properties (See section 5)	
Solubility Water (Dichloromethane)	200 g/L at 20°C
Density (Dichloromethane)	1.3254-1.3258 g/cm ³ at 20°C
Evaporation Rate	Not Available
Octanol/Water partition coefficient (Kow) (Dichloromethane)	1.25
Auto-ignition temperature:	Not Available

Decomposition temperature: Not Available

Section 10: STABILITY AND REACTIVITY

Stability: This material is considered stable at ambient temperatures 70°C (21°C).

Condition to Avoid: Heat, flames and sparks. Exposure to sunlight.

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

Hazardous Decomposition: Upon decomposition, this product evolves Carbon oxides, Hydrogen chloride gas

Hazardous Reactions: This product will not undergo polymerization.

Section 11: TOXICOLOGICAL INFORMATION

ACUTE EFFECTS:

Analysis LD50

Dichloromethane (75-09-2)
Oral LD50 Rat >2000 mg/kg;
Inhalation LC50 Rat 76000 mg/m³ 4 h
LD50 Oral - rat - 1,600 mg/kg
Remarks: Behavioral:Ataxia.
LD50 Oral - rat - 985 mg/kg
Remarks: Behavioral:Ataxia.
LD50 Oral - rabbit - 2,000 mg/kg
LD50 Oral - dog - 3,000 mg/kg
LC50 Inhalation - rat - 52,000 mg/m³

CHRONIC EFFECTS:

Dichloromethane (75-09-2)

Carcinogenic Effects: NTP – reasonable anticipated to be a human carcinogen.

IARC – Possible carcinogen 2B. OSHA specifically regulated carcinogen (Methylene chloride)

Mutagenic Effects: DNA damage

Teratogenic Effects: Has been toxic to the fetus in lab animals at doses toxic to the mother.

Developmental Toxicity: Not available

Target Organs: Skin, CVS, eyes, CNS (in animals: lung, liver, salivary, and mammary glands tumors)

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion Harmful if swallowed.

Skin Harmful if absorbed through skin. Causes skin irritation.

Eyes Causes eye irritation. 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

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Dichloromethane (75-09-2)

48 Hr LC50 Eisenia foetida: 0.3 mg/cm² [filter paper]

48 Hr LC50 Eisenia foetida: 304 mg/cm2 [filter paper]
96 Hr EC50 Pseudokirchneriella subcapitata: >500 mg/L
72 Hr EC50 Pseudokirchneriella subcapitata: >500 mg/L
96 Hr LC50 Pimephales promelas: 140.8-277.8 mg/L [flow-through];
96 Hr LC50 Pimephales promelas: 262-855mg/L [static];
96 Hr LC50 Lepomis macrochirus: 193 mg/L [static];
96 Hr LC50 Lepomis macrochirus: 193 mg/L [flow-through]
48 Hr EC50 Daphnia magna: 1532 - 1847 mg/L [Static];
48 Hr EC50 Daphnia magna: 190 mg/L

Section 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, and federal regulations.

Section 14: TRANSPORTATION INFORMATION

Proper Shipping Name: Dichloromethane
Hazard Class: 6.1
Identification No.: UN1593
Packing Group: III
Label: Poison

Section 15: REGULATORY INFORMATION

TSCA Inventory This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory. This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA 3(13)) for consumer paint or coating removal.

SARA 302/304 The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to Subparts 302 and 304 to submit emergency planning and notification information based on Threshold Planning Quantities (TPQs) and Reportable Quantities (RQs) for "Extremely Hazardous Substances" listed in 40 CFR 302.4 and 40 CFR 355. No components were identified.

SARA 313: Dichloromethane (75-09-2)

CERCLA The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center concerning release of quantities of "hazardous substances" equal to or greater than the reportable quantities (RQ's) listed in 40 CFR 302.4. As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically designated in 40 CFR 302.4. Chemical substances present in this product or refinery stream that may be subject to this statute are: Dichloromethane (75-09-2) RQ = 1,000

SARA 311/312 Hazard The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to this subpart to submit aggregate information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material would be classified under the following hazard categories: Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard

California Prop 65: Dichloromethane cancer hazard

Section 16: OTHER SUPPLEMENTAL INFORMATION

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. No warranty of any kind is given or implied and BVV will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.