

Methylene Chloride

SDS Revision Date (mm/dd/yyyy): 11/06/2023

Page 1 of 11

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: Methylene Chloride

Other means of identification: Not available.

Recommended use of the chemical and restrictions on use

: Industrial solvent.

Use pattern: Professional use only Recommended restrictions None known.

Chemical family : Halogenated Solvent

Name, address, and telephone number

of the supplier:

Name, address, and telephone number of

the manufacturer:

Refer to supplier

Comet Chemical Company Ltd. 3463 Thomas Street

Innisfill, ON, Canada L9S 3W4

Supplier's Telephone #

: 705-436-5580

24 Hr. Emergency Tel #

: GFL Environmental - 1-888-772-2543

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Clear, colorless liquid. Ether like odour.

Most important hazards: Toxic if swallowed. Suspected of causing cancer.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification:

Acute toxicity, oral - Category 3 Eye irritation - Category 2A Skin Irritation - Category 2 Carcinogen - Category 2

Specific target organ toxicity, single exposure - Category 3 (narcotic effects) Specific target organ toxicity, single exposure - Category 3 (respiratory)

Specific Target Organ Toxicity, Repeated Exposure - Category 2

Label elements

Hazard pictogram(s)





Signal Word

DANGER!



Methylene Chloride

SDS Revision Date (mm/dd/yyyy): 11/06/2023

Page 2 of 11

SAFETY DATA SHEET

Hazard statement(s)

Toxic if swallowed.

Causes skin irritation.

Causes serious eye irritation.

Suspected of causing cancer.

May cause drowsiness or dizziness.

May cause respiratory irritation.

May cause damage to the liver through prolonged or repeated exposure if swallowed.

Precautionary statement(s)

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

Obtain special instructions before use.

Do not eat, drink or smoke when using this product.

Do not breathe mist or vapor.

Wash hands thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/eye protection/face protection.

IF exposed or concerned: Get medical attention/advice.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Do NOT induce vomiting. Rinse mouth. IF ON SKIN: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

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

Call a POISON CENTER or doctor/physician if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: get medical advice/attention.

Store locked up.

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

Dispose of contents/container in accordance with local regulation.

Other hazards

Other hazards which do not result in classification:

Burning produces obnoxious and toxic fumes.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance

Chemical name	Common name and synonyms	CAS#	Concentration (% by weight)
Methylene chloride	Dichloromethane; DCM	75-09-2	100.00

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

Ingestion

: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

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

has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTRE or doctor/physician if you feel

unwell.



Comet Chemical Company Ltd. 3463 Thomas Street Innisfill, ON, Canada, L9S 3W4

Telephone: (705) 436 5580

Methylene Chloride

SDS Revision Date (mm/dd/yyyy): 11/06/2023

Page 3 of 11

SAFETY DATA SHEET

Skin contact Immediately flush with plenty of water, while removing contaminated

clothing.Immediately call a POISON CENTER or doctor/physician. Wash contaminated

clothing before reuse.

: For eye contact, flush with running water for at least 15 minutes. If eye irritation Eye contact

persists: get medical advice/attention.

Most important symptoms and effects, both acute and delayed

: Suspected of causing cancer. Causes skin irritation. Redness, swelling, itching and dryness. May cause respiratory irritation. May cause coughing and breathing difficulties. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause headache, nausea, dizziness and other symptoms of central nervous system depression. May cause eye irritation. Symptoms may include stinging and tearing. May cause damage to the liver through prolonged or repeated exposure if inhaled.

Indication of any immediate medical attention and special treatment needed

: Treat symptomatically. This product is a CNS depressant.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

: Carbon dioxide (CO2); Dry chemical; Alcohol resistant foam; Water fog

Unsuitable extinguishing media

: Avoid spreading burning liquid with water spray used for cooling purposes.

Special hazards arising from the substance or mixture / Conditions of flammability

: Not flammable under normal conditions of use. May be ignited if heated to extremely high temperatures. Decomposes at high temperatures. Can accumulate in a confined space creating a toxicity hazard. Empty containers may contain hazardous residues.

Flammability classification (OSHA 29 CFR 1910.106)

: Not flammable.

Hazardous combustion products

: Carbon oxides. Hydrogen chloride. Chlorine.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat. helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Do not enter without wearing specialized protective equipment suitable for the situation. Firefighter's normal protective clothing (Bunker Gear) will not provide adequate protection. A full-body encapsulating chemical protective suit with positive pressure self-contained breathing apparatus (NIOSH approved or equivalent) may be necessary.

Special fire-fighting procedures

: Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7

Environmental precautions

Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.



Methylene Chloride

SDS Revision Date (mm/dd/yyyy): 11/06/2023

Page 4 of 11

SAFETY DATA SHEET

Methods and material for containment and cleaning up

: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools and equipment in the clean-up process. Avoid breathing mist or vapours.

Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contact the proper local authorities. Refer to Section 13 for disposal of contaminated material.

Special spill response procedures

In Canada: For 24-hour emergency assistance, call: 1-613-996-6666 (CANUTEC). US CERCLA Reportable quantity (RQ): Methylene chloride (1000 lbs / 454 kg)

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/clothing and eye/face protection. Use only in well-ventilated areas. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Keep container tightly closed. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep away from flames and hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharges. Ground all equipment during handling. Persons with recurrent skin eczema or sensitization problems should be excluded from working with this product. Once a person is sensitized, no further exposure to the material that caused the sensitization should be permitted.

Conditions for safe storage :

Keep container tightly closed. Store in cool/well-ventilated place. Store locked up. Keep cool. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking. Empty containers may contain hazardous residues.

Incompatible materials

: Strong oxidizers (e.g. Chlorine, Peroxides, etc.). Methanol. Acids. Amines. Methanol

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:				
Chemical Name	ACGIH TLV		OSHA PEL	
	<u>TWA</u>	<u>STEL</u>	PEL	<u>STEL</u>
Methylene chloride	50 ppm	N/Av	25 ppm	125 ppm

Exposure controls

Ventilation and engineering measures

: Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof equipment. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection

: If airbourne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection specialists.

Skin protection

: Wear protective gloves/clothing. Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.



Methylene Chloride

SDS Revision Date (mm/dd/yyyy): 11/06/2023 Page 5 of 11

SAFETY DATA SHEET

Eye / face protection : Wear eye/face protection. Wear as appropriate: Tightly fitting safety goggles

Other protective equipment : Ensure that eyewash stations and safety showers are close to the workstation location.

Other equipment may be required depending on workplace standards.

General hygiene considerations

: Do not breathe mist or vapor. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not take contaminated clothing home. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Liquid.

Colour : Clear,colourless
Odour : Ether like odour.
Odour threshold : 2-440 ppm

pH: No information available.

Melting Point/Freezing point : -97°C(-142.6°F)

Initial boiling point and boiling range

: 40°C (104°F)

Flash point : >100°C (212°F))
Flashpoint (Method) : Closed cup
Evaporation rate (BuAe = 1) : Not available.
Flammability : Not applicable.
Lower explosion or flammability limit (% by vol.)

12

Upper explosion or flammability limit (% by vol.)

: 19

Oxidizing properties: None known.Explosive properties: Not explosiveVapour pressure: Not available.

Relative vapour density : 2.93 Relative density / Specific gravity

: 1.33 @ 20°C

Solubility in water : Soluble (20g/l)
Other solubility(ies) : Not available.

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

: Not available.

Auto-ignition temperature : 556.11 °C (1033°F)

Decomposition temperature : No information available.

Viscosity : Not available.

Particle characteristics :

Volatiles (% by weight) : No information available.

Volatile organic Compounds (VOC's)

: No information available.

Absolute pressure of container

: Not applicable.

Flame projection length : Not applicable.

Other physical/chemical comments

: None known or reported by the manufacturer.



Methylene Chloride

SDS Revision Date (mm/dd/yyyy): 11/06/2023 Page 6 of 11

SAFETY DATA SHEET

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions

: Hazardous polymerization does not occur.

Conditions to avoid : Open flames, sparks, high heat, direct sunlight, and close proximity to incompatible

substances. Do not use in areas without adequate ventilation.

Incompatible materials: Incompatible materials (see Section 7).

Hazardous decomposition products

: Carbon oxides and other irritating fumes and smoke. Hydrogen chloride gas.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES
Routes of entry skin & eye : YES
Routes of entry Ingestion : YES
Routes of exposure skin absorption

: YES

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

May cause respiratory tract irritation. Coughing, difficulty breathing, and tightness in chest. May cause headache, nausea, dizziness and other symptoms of central

nervous system depression.

Sign and symptoms ingestion

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Sign and symptoms skin : Causes

: Causes skin irritation.

Sign and symptoms eyes : Ca

: Causes serious eye irritation.

Potential Chronic Health Effects

: May cause damage to the liver through prolonged or repeated exposure if swallowed.

Mutagenicity : Not expected to be mutagenic in humans.

Carcinogenicity : Suspected of causing cancer. This product contains Methylene chloride, which is

classified as possibly carcinogenic by IARC (Group 2A), the ACGIH (Category A3) and

the NTP.

Reproductive effects & Teratogenicity

: Not expected to cause reproductive effects.

Sensitization to material :

: Not expected to be a skin or respiratory sensitizer.

Specific target organ effects: May cause drowsiness or dizziness. May cause respiratory irritation.

May cause damage to the liver through prolonged or repeated exposure if swallowed.

Medical conditions aggravated by overexposure

: Pre-existing skin, eye, respiratory and central nervous system disorders.

Synergistic materials : No information available.

Toxicological data : See below for toxicological data on the substance.



Methylene Chloride

SDS Revision Date (mm/dd/yyyy): 11/06/2023

Page 7 of 11

SAFETY DATA SHEET

	LC₅₀(4hr)	LDs	0	
Chemical name	<u>inh, rat</u>	(Oral, rat)	(Rabbit, dermal)	
Methylene chloride	22 170 ppm (77.01 mg/L) (vapour)	1400 mg/kg	> 2000 mg/kg	

Other important toxicological hazards

: None reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

: Contains material that may be harmful in the environment. Do not allow material to contaminate ground water system. See the following tables for the substance's ecotoxicity data.

Ecotoxicity data:

Ingradiente	040#	Toxicity to Fish			
<u>Ingredients</u>	CAS#	LC50 / 96h	NOEC / 21 day	M Factor	
Methylene chloride	75-09-2	193 mg/L (Fathead minnow)	83 mg/L/28-day (Fathead minnow)	None.	

<u>Ingredients</u>	CAS#	Toxicity to Daphnia					Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor					
Methylene chloride	75-09-2	27 mg/L (Daphnia magna)	6.2 - 13.3 mg/L	None.					

<u>Ingredients</u>	CAS#	То		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Methylene chloride	75-09-2	662 mg/L/96hr (Green algae)	56 mg/L/96hr	None.

Persistence and degradability

: Inherently biodegradable.

Bioaccumulation potential: Bioaccumulation is unlikely.

<u>Components</u>	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Methylene chloride (CAS 75-09-2)	1.25	6.4 - 40 BCF method: OECD

Mobility in soil : High water solubility indicates a high mobility in soil.

Other Adverse Environmental effects

Handling for Disposal

: None known.

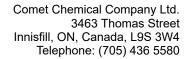
SECTION 13. DISPOSAL CONSIDERATIONS

: Handle in accordance with good industrial hygiene and safety practice. Refer to

protective measures listed in sections 7 and 8.

Methods of Disposal : Dispose in accordance with all applicable federal, state, provincial and local

regulations.





Methylene Chloride

SDS Revision Date (mm/dd/yyyy): 11/06/2023

Page 8 of 11

SAFETY DATA SHEET

RCRA

: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	UN1593	DICHLOROMETHANE	6.1	III	<u> </u>
TDG Additional information		d as a Limited Quantity when transported in containers no g (66 pounds) gross mass.	larger than 5 L	(1.3 gallons); in packages not
IMDG	UN1593	DICHLOROMETHANE	6.1	III	
IMDG Additional information	Consult the IMI	OG regulations for exemptions.			
49CFR/DOT	UN1593	DICHLOROMETHANE	6.1	III	
49CFR/DOT Additional information		d as a Limited Quantity when transported in containers no g (66 pounds) gross mass.	larger than 5 L	(1.3 gallons); in packages no
ICAO/IATA	UN1593	Dichloromethane	none	III	
ICAO/IATA Additional information	Refer to ICAO/I	ATA Packing Instruction	!	Į.	

Special precautions for user: Appropriate advice on safety must accompany the package. Keep away from heat,

sparks and open flame - No smoking.

Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

		TSCA	CERCLA Reportable	SARA TITLE III: Sec. 302, Extremely	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical		
<u>Ingredients</u> CAS #	CAS#	Inventory	Quantity(RQ) (40 CFR 117.302):	Hazardous Substance, 40 CFR 355:	Toxic Chemical	de Minimis Concentration	
Methylene chloride	75-09-2	Yes	1000 lb/ 454 kg	None.	Yes	Yes	

Comet Chemical Company Ltd. 3463 Thomas Street Innisfill, ON, Canada, L9S 3W4

Telephone: (705) 436 5580

Methylene Chloride

SDS Revision Date (mm/dd/yyyy): 11/06/2023

Page 9 of 11

SAFETY DATA SHEET

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Acute toxicity(Oral); Carcinogenicity; Skin irritation; Eye irritation; Specific target organ toxicity, single exposure; Specific target organ toxicity, repeated exposure.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS#	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Methylene chloride	75-09-2	Yes	Cancer	Yes	Yes	Yes	Yes	Yes	Yes

Canadian Information:

All ingredients are present on the DSL.

International Information:

Components listed below are present on the following International Inventory list:

Ingredients	CAS#	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Methylene chloride	75-09-2	200-838-9	Present	Present	(2)-36	KE-23893	Present	HSR001540

SECTION 16. OTHER INFORMATION

Legend

ACGIH: American Conference of Governmental Industrial Hygienists

AICS: Australian Inventory of Chemical Substances

ATE: Acute Toxicity Estimate **CAS: Chemical Abstract Services**

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

of 1980

CFR: Code of Federal Regulations CSA: Canadian Standards Association **DOT: Department of Transportation** ECHA: European Chemicals Agency

ECOTOX: U.S. EPA Ecotoxicology Database

EINECS: European Inventory of Existing Commercial chemical Substances

ENCS: Existing and New Chemical Substances EPA: Environmental Protection Agency

HSDB: Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer

IBC: Intermediate Bulk Container

IECSC: Inventory of Existing Chemical Substances IMDG: International Maritime Dangerous Goods

IOC: Inventory of Chemicals

IUCLID: International Uniform Chemical Information Database

KECI: Korean Existing Chemicals Inventory KECL: Korean Existing Chemicals List

LC: Lethal Concentration LD: Lethal Dose N/Ap: Not Applicable

N/Av: Not Available

NIOSH: National Institute of Occupational Safety and Health



Methylene Chloride

SDS Revision Date (mm/dd/yyyy): 11/06/2023

Page 10 of 11

SAFETY DATA SHEET

NOEC: No observable effect concentration

NTP: National Toxicology Program

OECD: Organisation for Economic Co-operation and Development

OSHA: Occupational Safety and Health Administration

PEL: Permissible exposure limit

PICCS: Philippine Inventory of Chemicals and Chemical Substances

RCRA: Resource Conservation and Recovery Act RTECS: Registry of Toxic Effects of Chemical Substances SARA: Superfund Amendments and Reauthorization Act SDS: Safety Data Sheet / Material Safety Data Sheet

STEL: Short Term Exposure Limit

TDG: Canadian Transportation of Dangerous Goods Act & Regulations

TLV: Threshold Limit Values TSCA: Toxic Substance Control Act TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Identification System

References : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents &

Biological Exposure Indices

2. ECHA - European Chemical Agency

3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases

4. Safety Data Sheets from manufacturer.

5. US EPA Title III List of Lists6. California Proposition 65 List

7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal

Preparation Date (mm/dd/yyyy)

: 06/23/2016

Reviewed Date SDS (dd/mm/yyyy)

: 06/11/2023

Revision No. : 2

Revision Information: Updated SDS to the comply with new 2023 WHMIS format

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

Prepared for:

Comet Chemical Company Ltd. 3463 Thomas Street

Innisfill, ON L9S 3W4

Information (M-F 8:00-5:00): 705-436-5580

www.cometchemical.com



Prepared by:

ICC The Compliance Center Inc.

Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada)

http://www.thecompliancecenter.com



DISCLAIMER

This Safety Data Sheet was prepared by ICC The Compliance Center Inc. using information provided by Comet Chemical Company Ltd.. and CCOHS' Web Information Service. The information in the Safety Data Sheet is offered for your consideration and guidance when exposed to this product. ICC The Compliance Center Inc and Comet Chemical Company Ltd. expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this Safety Data Sheet does not apply to use with any other product or in any other process.

This Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of



Methylene Chloride

SDS Revision Date (mm/dd/yyyy): 11/06/2023

Page 11 of 11

SAFETY DATA SHEET

ICC The Compliance Center Inc. and Comet Chemical Company Ltd.

END OF DOCUMENT