

according to the Hazardous Products Regulation (February 11, 2015) Date of issue: 06/21/2016 Version: 1.0

SECTION 1: Identification	
1.1. Product identifier	
Product form	: Substance
Substance name	: Methylene Chloride
Chemical name	: Dichloromethane
Substance type	: Mono-constituent
Type of product	: Pure substance
CAS No	: 75-09-2
Product code	: D2728, D2730, D2734
Formula	: CH2Cl2
Product group	: Trade product
1.2. Recommended use and restrictions	s on use
Recommended use	: Laboratory chemicals
1.3. Supplier	
Produits Chimiques ACP Chemicals Inc.	
4601, boul. des Grandes Prairies	
Montreal, Quebec H1R 1A5	
www.acpchem.com	
1.4. Emergency telephone number	
Emergency number	: (613) 996-6666 (CANUTEC)
Emergency number	. (013) 990-0000 (CANUTEC)
SECTION 2: Hazard identification	
2.1. Classification of the substance or r	nixture
Classification (GHS-CA)	
Carcinogenicity Category 1B H350	
Full text of H statements : see section 16	
2.2. GHS Label elements, including pre-	cautionary statements
GHS-CA labeling	cautionary statements
Hazard pictograms (GHS-CA)	
hazard pictograms (GHS-GA)	
Signal word (GHS-CA)	GHS08
o	: Danger
Hazard statements (GHS-CA)	: H350 - May cause cancer
Precautionary statements (GHS-CA)	: P201 - Obtain special instructions before use
	P202 - Do not handle until all safety precautions have been read and understood P280 - Wear eye protection, protective gloves
	P308+P313 - IF exposed or concerned: Get medical advice/attention
	P405 - Store locked up P501 - Dispose of contents/container to Comply with applicable regulations
2.3. Other hazards	
Other hazards not contributing to the classification	: None under normal conditions.
2.4. Unknown acute toxicity (GHS-CA)	
No data available	
	on indrealents
SECTION 3: Composition/Information 3.1. Substances Substance type	: Mono-constituent

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Name	Chemical name/Synonyms	Product identifier	%	Classification (GHS-CA)
Methylene Chloride (Main constituent)	Dichloromethane dichloromethane / methane dichloride / methylene dichloride	(CAS No) 75-09-2	100	Carc. 1B, H350

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures	
Not applicable	
SECTION 4: First-aid measures	
4.1. Description of first aid measure	es
First-aid measures after inhalation	: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	: Wash immediately with lots of water. Soap may be used. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.
First-aid measures after eye contact	 Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.
First-aid measures after ingestion	Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Give activated charcoal. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital. Doctor: gastric lavage.
First-aid measures general	: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with labored breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. Never give alcohol to drink.
4.2. Most important symptoms and	effects (acute and delayed)
Symptoms/injuries after inhalation	Dry/sore throat. Coughing. Slight irritation. EXPOSURE TO HIGH CONCENTRATIONS: Headache. Nausea. Feeling of weakness. Dizziness. Coordination disorders. Impaired concentration. Change in the haemogramme/blood composition. ON CONTINUOUS EXPOSURE/CONTACT: Respiratory difficulties. Disturbances of consciousness.
Symptoms/injuries after skin contact	: Tingling/irritation of the skin.
Symptoms/injuries after eye contact	: Irritation of the eye tissue.
Symptoms/injuries after ingestion	: AFTER ABSORPTION OF LARGE QUANTITIES: Nausea. Dry/sore throat. Gastrointestinal complaints.
Chronic symptoms	: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin. Dry skin. Central nervous system depression. Mental confusion. Slurred speech. Visual disturbances. Drunkenness. Delusions. Impaired memory. Enlargement/affection of the liver.
4.3. Immediate medical attention ar	nd special treatment, if necessary
Treatment	: Obtain medical assistance. Treat symptomatically.

SECTION 5: Fire-fighting measures 5.1. Suitable extinguishing media Suitable extinguishing media : Water spray. Polyvalent foam. BC powder. Carbon dioxide. Unsuitable extinguishing media 5.2. Unsuitable extinguishing media : No unsuitable extinguishing media known. 5.3. Specific hazards arising from the hazardous product Fire hazard : DIRECT FIRE HAZARD. Flammable in the presence of a high energy source. Gas/vapor flammable with air within explosion limits. INDIRECT FIRE HAZARD. Heating increases the fire hazard. Reactions involving a fire hazard: see "Reactivity Hazard". DIRECT EXPLOSION HAZARD. Gas/vapour explosive within explosion limits if energy source Explosion hazard high. INDIRECT EXPLOSION HAZARD. Heat may cause pressure rise in tanks/drums: explosion risk. Reactions with explosion hazards: see "Reactivity Hazard". 5.4. Special protective equipment and precautions for fire-fighters : Cool tanks/drums with water spray/remove them into safety. Physical explosion risk: **Firefighting instructions** extinguish/cool from behind cover. Do not move the load if exposed to heat. After cooling: persistant risk of physical explosion. Dilute toxic gases with water spray. Precautionary measures fire : Exposure to fire/heat: consider evacuation. **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

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6.2.	Methods and materials for conta	ainment and cleaning up
For co	ntainment	: Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Dam up the liquid spill. Try to reduce evaporation. Provide equipment/receptacles with earthing.
Method	ds for cleaning up	: Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite. Scoop absorbed substance into closing containers. See "Material-handling" for suitable container materials. Carefully collect the spill/leftovers. Damaged/cooled tanks must be emptied. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.
6.3.	Reference to other sections	
For further information refer to section 8: "Exposure controls/personal protection"		

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Use earthed equipment. Keep away from naked flames/heat. Observe strict hygiene. Keep container tightly closed. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.	
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.	
7.2. Conditions for safe storage, include	ling any incompatibilities	
Heat-ignition	: KEEP SUBSTANCE AWAY FROM: heat sources.	
Storage temperature	: < 35 ℃	
Storage area	: Store in a cool area. Store in a dry area. Store in a dark area. Ventilation at floor level. Provide for a tub to collect spills. Provide the tank with earthing. Unauthorized persons are not admitted. Store only in a limited quantity. Meet the legal requirements.	
Prohibitions on mixed storage	: KEEP SUBSTANCE AWAY FROM: oxidizing agents. strong acids. (strong) bases. organic materials. water/moisture.	
Special rules on packaging	: SPECIAL REQUIREMENTS: closing. dry. clean. opaque. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.	
Packaging materials	: SUITABLE MATERIAL: stainless steel. polyethylene. glass. MATERIAL TO AVOID: iron. aluminium. synthetic material. copper. PVC.	

SECTION 8: Exposure controls/personal protection

8.1. Control parameters			
Methylene Chloride (75-09-2)			
USA - ACGIH	ACGIH TWA (mg/m ³)	174 mg/m ³	
USA - ACGIH	ACGIH TWA (ppm)	50 ppm (Dichloromethane (Methylene chloride); USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)	
USA - OSHA	OSHA PEL (TWA) (ppm)	25 ppm	
USA - OSHA	OSHA PEL (STEL) (ppm)	125 ppm	
8.2. Appropriate enginee	ering controls		
Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.			
8.3. Individual protection	n measures/Personal protective equipment		
Materials for protective clothing : GIVE GOOD RESISTANCE: PVA. GIVE LESS RESISTANCE: neoprene. tetrafluoroethylene. GIVE POOR RESISTANCE: butyl rubber. natural rubber. nitrile rubber. PVC. viton. styrene- butadiene rubber.			
Hand protection	Hand protection : Gloves.		
Eye protection : Safety glasses.			
Skin and body protection	Skin and body protection : Head/neck protection. Protective clothing.		
Respiratory protection	: Gas mask with filter type AX at conself-contained respirator.	onc. in air > exposure limit. High vapour/gas concentration:	

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Appearance	: Liquid.	
Molecular mass	: 84.94 g/mol	

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Color	: Colourless
Odor	: Sweet odour Ether-like odour
Odor threshold	: 214 ppm 755 mg/m ³
рН	: No data available
pH solution	: No data available
Relative evaporation rate (butyl acetate=1)	: 27.5
Relative evaporation rate (ether=1)	: 1.8
Melting point	: -97 °C
Freezing point	: No data available
Boiling point	: 40 °C
Flash point	: No data available
Critical temperature	: 245 ℃
Auto-ignition temperature	: 556 °C
Decomposition temperature	: > 120 ℃
Flammability (solid, gas)	: No data available
Vapor pressure	: 470 hPa (20 °C)
Vapor pressure at 50 ℃	: 1445 hPa (50 °C)
Critical pressure	: 61000 hPa
Relative vapor density at 20 °C	: 2.9
Relative density	: 1.3
Relative density of saturated gas/air mixture	: 1.9
Specific gravity / density	: 1325 kg/m³
Relative gas density	: No data available
Solubility	: Moderately soluble in water. Substance sinks in water. Soluble in ethanol. Soluble in ether. Soluble in acetone. Soluble in chloroform. Soluble in tetrachloromethane. Soluble in dimethylformamide. Water: 1.4 g/100ml
Log Pow	: 1.25 (Experimental value)
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 0.00043 Pa.s (20 °C)
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: 13 - 22 vol % 450 - 780 g/m³
9.2. Other information	
Specific conductivity	: 4300 pS/m
Saturation concentration	: 1535 g/m ³
VOC content	: 100 %
Other properties	: Gas/vapour heavier than air at 20 $^\circ\!\!C$. Clear. Highly volatile. May generate electrostatic charges.
SECTION 10: Stability and reactivity	/
10.1. Reactivity	
Reactivity	: Reacts on exposure to water and heat with (some) metals. Decomposes slowly on exposure to water (moisture): release of toxic and corrosive gases/vapours (hydrogen chloride). On heating under increased oxygen concentration: (increased) risk of fire/explosion. On burning: release of toxic and corrosive gases/vapours (hydrogen chloride, carbon monoxide - carbon dioxide). Violent to explosive reaction with many compounds e.g. with (some) acids, with (some) metal powders and with (strong) oxidizers: (increased) risk of fire/explosion and formation of small quantities of phosgene.
Chemical stability	: Stable under normal conditions.
Chemical stability Possibility of hazardous reactions	: Stable under normal conditions. : Not established.
Chemical stability Possibility of hazardous reactions Conditions to avoid	
Possibility of hazardous reactions	: Not established.
Possibility of hazardous reactions Conditions to avoid	: Not established. : Heat. Moisture.

SECTION 11: Toxicological information		
Likely routes of exposure	: Inhalation. Skin and eye contact.	

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11.1. Information on toxicologic	al effects	
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Dermal: Not classified.	
Acute toxicity (inhalation)	: Not classified	
,		
Methylene Chloride (\f)75-09-2		
Methylene Chloride (\f)75-09-2 LD50 oral rat	> 2000 mg/kg (Rat; Literature study)	

Methylene Chloride (75-09-2)	
Aspiration hazard	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Reproductive toxicity Specific target organ toxicity (single exposure)	: Not classified : Not classified
Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity National Toxicology Program (NTP) Status	 Not classified Not classified Not classified Not classified May cause cancer. 3 - Reasonably anticipated to be Human Carcinogen
Skin corrosion/irritation	: Not classified

Methylene Chloride (75-09-2)		
	Viscosity, kinematic (calculated value) (40 °C)	0.32452830 mm²/s

SECTION 12: Ecological information	
12.1. Toxicity	
	Classification concerning the environment: not applicable.
Ecology - air	Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). TA-Luft Klasse 5.2.5/I.
Ecology - water	: Water pollutant (surface water). Ground water pollutant. Slightly harmful to fishes (LC50(96h) 100-1000 mg/l). Slightly harmful to invertebrates (Daphnia) (EC50 (48h): 100 - 1000 mg/l). Practically non-toxic to algae (EC50 >100 mg/l). Toxic to bacteria. Inhibition of activated sludge.
Methylene Chloride (75-09-2)	
LC50 fish 1	193 mg/l (LC50; 96 h; Pimephales promelas)
EC50 Daphnia 1	168.2 mg/l (EC50; 48 h)
12.2. Persistence and degradability	
Methylene Chloride (75-09-2)	
Persistence and degradability	Not readily biodegradable in water. Biodegradable in the soil.
12.3. Bioaccumulative potential	
Methylene Chloride (75-09-2)	
BCF fish 1	2 - 40 (BCF)
Log Pow	1.25 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
12.4. Mobility in soil	
Methylene Chloride (75-09-2)	
Surface tension	0.028 N/m (20 °C)
Log Pow	1.25 (Experimental value)
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.
12.5. Other adverse effects	

No additional information available

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13.1. Disposal methods	
Waste disposal recommendations	Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Remove to an incinerator for chlorinated waste materials with energy recovery. Do not discharge into surface water (Directive 2000/60/EC, Council Decision 2455/2001/EC).
Additional information	 LWCA (the Netherlands): KGA category 04. Hazardous waste according to Directive 2008/98/EC.

14.1. Basic shipping description	
In accordance with TDG	
TDG	
Not regulated for transport	
14.2. Transport information/DOT	
DOT	
DOT NA no.	: UN1593
UN-No.(DOT)	: 1593
Packing group (DOT)	: III - Minor Danger
Transport document description	: UN1593 Dichloromethane, 6.1, III
Proper Shipping Name (DOT)	: Dichloromethane
Contains Statement Field Selection (DOT)	:
Transport hazard class(es) (DOT)	: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132
Division (DOT)	: 6.1
Hazard labels (DOT)	: 6.1 - Poison inhalation hazard
Dangerous for the environment	: No
DOT Special Provisions (49 CFR 172.102)	 IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672) IP8 - Ammonia solutions may be transported in rigid or composite plastic IBCs (31H1, 31H2 and 31HZ1) that have successfully passed, without leakage or permanent deformation, the hydrostatic test specified in 178.814 of this subchapter at a test pressure that is not less than 1.5 times the vapor pressure of the contents at 55 C (131 F) N36 - Aluminum or aluminum alloy construction materials are permitted only for halogenated hydrocarbons that will not react with aluminum T7 - 4 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 153
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241

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DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel

Other information

: No supplementary information available.

14.3. Air and sea transport	
IMDG	
UN-No. (IMDG)	: 1593
Class (IMDG)	: 6.1 - Toxic substances
EmS-No. (1)	: F-A
EmS-No. (2)	: S-A
ΙΑΤΑ	
UN-No. (IATA)	: 1593
Class (IATA)	: 6-
Packing group (IATA)	: III - Minor Danger
SECTION 15: Regulatory i	nformation
15.1. National regulations	
Methylene Chloride (75-09-2)	
Listed on the Canadian DSL (Dor	nestic Substances List)
15.2. International regulations	
Methylene Chloride (75-09-2)	
	(Toxic Substances Control Act) inventory
SECTION 16: Other inform	ation
Date of issue	: 21/06/2016
Full text of H-phrases:	
H350	May cause cancer

SDS Canada ACP

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product