

Section 1. Identifica	tion	Ž	
Product Identifier	Methylene Chloride	Version: 5 Effective Date:	25 January 2021
Other Means Of Identification	Dichloromethane		
Initial Supplier Identifier	Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055		
Recommended Use and Restrictions On Use	Industrial solvent. No restrictions.		
Product Family Emergency Phone	Alkyl Halide 1-855-887-2055 Monday - Friday 8:00am	- 4:30pm MST	

Section 2. Hazard Identify	cation
Hazard Classification	
Health Hazards	
	Skin Corrosion/Irritation – Category 2
	Eye Damage/Irritation – Category 2A
	Specific Target Organ Toxicity (Single Exposure) – Category 3
	Gem Cell Mutagenicity – Category 2
	Carcinogenicity – Category 2
	Specific Target Organ Toxicity (Repeated Exposure) – Category 2
	Aspiration Hazard – Category 1
Signal Word	Danger
Hazard Statement	Causes skin irritation. Causes serious eye irritation. May cause
	respiratory irritation, or may cause drowsiness or dizziness.
	Suspected of causing genetic defects (ingestion, inhalation, and skin contact).
	Suspected of causing cancer (ingestion, inhalation, and skin contact)
	May cause damage to organs (kidney, central nervous system, and
	blood) through prolonged or repeated exposure (ingestion,
	inhalation, and skin contact).
	May be harmful if swallowed and enters airways.



Precautionary Prevention	Wash hands thoroughly after handling. Wear protective gloves,		
Statement	clothing, and eye & face protection. Avoid inhaling dust, fume, gas,		
	mist, vapours, and spray. Use only outdoors, or a well-ventilated area.		
	Obtain special instructions before use. Do not handle until all safety		
	precautions have been read and understood.		
	Do not inhale dust, fume, gas, mist, vapours, and spray.		
Precautionary Response	IF ON SKIN: Wash with plenty water and soap.		
Statement	Specific Treatment: Do not induce vomiting unless directed by		
	medical personnel. Treat symptomatically and supportively.		
	If skin irritation occurs: Seek medical attention.		
	Remove contaminated clothing and launder before reuse.		
	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, seek medical attention.		
	IF INHALED: Remove person to fresh air and keep comfortable for		
	breathing. Call a doctor if you feel unwell.		
	IF exposed or concerned, seek medical attention.		
	Seek medical attention if you feel unwell.		
	IF SWALLOWED: Immediately call a POISON CENTRE. Do NOT		
	induce vomiting.		
Precautionary Storage	Store in a well-ventilated place. Keep container tightly closed. Store		
Statements	locked up.		
Precautionary Disposal	Dispose of contents/container in accordance with local regulations.		
Statement	-		
Other Hazards	None		
l .			

Section 3. Composition / Information on Ingredients			
Chemical Name	Common Name or Synonyms CAS NO. and Other Unique % by weight		
		Identifiers	
Dichloromethane	Methylene chloride	75-09-2	99.9

Section 4. First-Aid Measures		
Eye Contact	Flush eyes with water for 15 minutes. Seek medical attention.	
Skin Contact	Flush area with water. If irritation persists seek medical attention. Launder clothing before reuse.	
Inhalation	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.	
Ingestion	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.	



Most Important	If inhaled: nausea, headache, dizziness, unconsciousness and coma.	
Symptoms and Effects	Causes respiratory tract irritation. May cause narcotic effects in high	
Both Acute and Delayed	concentrations. Vapors may cause dizziness or suffocation. May cause	
	blood changes. Overexposure may cause an increase in	
	carboxyhemoglobin levels in the blood. Can produce delayed	
	• •	
	pulmonary edema.	
	If in eyes: severe irritation, and possible eye burns.	
	If on skin: Causes irritation with burning pain, itching, and redness.	
	Prolonged exposure may result in skin burns.	
	If ingested: gastrointestinal irritation with nausea, vomiting and	
	diarrhea. May cause kidney damage. May cause central nervous system	
	depression, characterized by excitement, followed by headache,	
	dizziness, drowsiness, and nausea. Advanced stages may cause	
	collapse, unconsciousness, coma and possible death due to respiratory	
	failure.	
Immediate Medical	Rapid absorption through the lungs if aspirated and cause systemic	
Attention and Special	effects, the decision of whether to induce vomiting or not should be	
Treatment	made by a physician. If lavage is performed, suggest endotracheal	
Treatment		
	and/or esophageal control. Danger from lung aspiration must be	
	weighed against toxicity when considering emptying the stomach. No	
	specific antidote. Supportive care. Treatment should be based on the	
	judgment of the physician in response to the reactions of the patient. If	
	burn is present, treat as any thermal burn after decontamination.	
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Section 5. Fire-Fighting M	easures
Suitable and Unsuitable	Dry chemicals, CO2, alcohol foam.
Extinguishing Media	Do not use direct water jet.
Hazardous Combustion	Hydrogen chloride, carbon monoxide, carbon dioxide, phosgene,
Products	chlorine.
Specific Hazards Arising	Because of its high volatility, airborne concentrations of methylene
From The Product	chloride can accumulate in poorly ventilated areas. Odor is a poor
	indicator of possibly dangerous air concentrations of methylene
	chloride.
Special Protective	Fire-fighters should wear self-contained breathing apparatus and full
Equipment and	protective clothing. Use water spray to cool containers and structures
Precautions For Fire-	exposed to fire.
Fighters	



Section 6. Accidental Releas	e Measures
Personal Precautions,	Chemical resistant footwear and coveralls. Air purifying respirator
Protective Equipment and	fitted with organic vapour cartridges. Safety glasses. Neoprene gloves.
Emergency Procedures	Evacuate unnecessary personnel. Secure area and ensure adequate ventilation.
Environmental	Do not allow material to enter, sewers and surface watercourses. Low
Precautions	lying areas – sumps, basements etc. may collect flammable vapours.
Methods and Materials	Isolate area, restrict access, ventilate area. Soak up small spills with
For Containment and	absorbent material and place in containers suitable for disposal. For
Clean-Up	larger spills, dike area, pump into containers for disposal. Use
	absorbent to remove residues, then wash with detergent and water.

Section 7. Handling and S	Storage
Precautions For Safe	Handle with care. Toxic material. Empty containers may contain
Handling	residues, do not cut, grind or weld these containers. Do NOT enter
	confined spaces where vapours may be trapped, especially low lying
	areas such as sumps, or larger tank and containment areas.
Conditions For Safe	Keep containers closed when not in use. Store in a cool place away from
Storage	sources of ignition. Significant vapour pressure can be generated above
	12 °C., this may result in venting or rupture. Do not store in aluminum,
	zinc, aluminum alloys and plastics. Product has a shelf life of 24
	months.

Section 8. Exposure Contro	ols / Personal Pro	tection		
Control Parameters	TWA: 8 Hr	STEL: 15 min	Ceiling	IDLH *
Dichloromethane	500 ppm	2000 ppm	1000 ppm	2300 ppm
	OSHA	OSHA	OSHA	
	* Immediately I	Dangerous to Life and	Health	
Exposure Controls	Local exhaust ventilation			
Appropriate Engineering	Facilities storing or utilizing this material should be equipped with an			
Controls	eyewash facility and a safety shower. Use adequate general or local			
	exhaust ventilation to keep airborne concentrations below the			
	permissible expe	osure limits.		
Individual Protective	If exposure limits are exceeded:			
Measures				
Eye / Face Protection	Safety glasses			
Skin Protection	Chemical resistant coveralls, gloves			
Respiratory Protection	Air purifying respirator fitted with organic vapour cartridges			



Section 9. Physical and Chemical Properties		
Appearance	Clear, colourless liquid with irritating vapour	
Odour	Ethereal odor - chloroform-like	
Odour Threshold	Not available.	
pH	Not applicable	
Flash Point	>100 °C	
Boiling Point and Boiling Range	39.8 °C	
Melting Point and Freezing Point	-96.7 °C	
Evaporation Rate	28 (ether =1)	
Flammability (solid, gas)	Not applicable	
Upper and Lower Flammability or	13-23 vol%	
Explosive Limits		
Vapour Pressure	355 mmHg @ 20 °C	
Vapour Density	2.93 (air = 1)	
Relative Density	1.32	
Solubility	2.0 g / 100 g water @ 25 °C	
Partition co-efficient, n-	log Pow: 1.25	
Octanol/Water		
Auto-ignition Temperature	556 °C	
Decomposition Temperature	No data	
Viscosity	No data	

Section 10. Stability and Reactivity		
Reactivity	May form explosive mixtures in atmospheres having high oxygen	
	content.	
Chemical Stability	Stable	
Possibility of Hazardous	Will not occur	
Reactions		
Conditions to Avoid	Avoid excessive heat, open flames and all ignition sources. Direct sunlight.	
Incompatible Materials	Oxidizing agents, strong bases, amines, aluminum and magnesium powders, potassium, sodium and zinc powders, and aluminum and its alloys.	
Hazardous Decomposition	Decomposition products can include and are not limited to: Hydrogen	
Products	chloride, chlorine and phosgene. NOTE: Water contamination may cause corrosion of metals due to formation of hydrochloric acid.	



Section 11. Toxicological Information			
Component Toxicity	LD50 Oral	LD50 Dermal	LC50 Inhalation
Dichloromethane	>2.0 g/kg (Rat)		76 g/m ³ (Rat) 4h
Likely Routes of Exposure			
Skin:	Prolonged and repeated contact will cause irritation and potentially		
	burns. Contact leaves burning and then cold sensation. Should not		
	be absorbed thro	•	
Eyes:	Irritation may be slow to heal. Vapour may cause eye irritation,		
Inholation	discomfort and redness. Can cause corneal injury.		
Inhalation:	May cause irritation to the upper respiratory tract. Excessive		
	exposure may cause unconsciousness and death. May cause carboxyhemoglobinemia – impairment of the bloods ability to		
	transport oxygen. Anesthetic effects can be observed at levels in the		
	1		sively higher levels (over 1000
			ess, and as high as 10,000 ppm,
			e high levels may also cause
	•	nias (irregular heart	·
Ingestion:			nts ingested incidentally during
	_	<u> </u>	to cause injury. Larger amounts into the lungs may occur during
		niting, resulting in l	• •
Acute Toxicity Estimates		t - > 2,000 mg/kg	ang mjary.
(ATE)		n - Rat - 52,000 mg/n	m3
		Rat - > $2,000 \text{ mg/kg}$	
STOT (Specific Target	May cause resp	iratory irritation. Ma	y cause drowsiness or
Organ Toxicity) – Single	dizziness.		
Exposure			
Aspiration Toxicity	Not classified	1	
STOT (Specific Target			rgans through prolonged or
Organ Toxicity) – Repeated			system (oral) - may cause d or repeated exposure (liver,
Exposure	blood)	is unough prolonger	d of repeated exposure (fiver,
Skin Corrosion / Irritation		if absorbed through	skin. Causes skin irritation.
Serious Eye Damage /	Causes eye irrita		
Irritation	. J		
Respiratory or Skin	Not classified		
Sensitization			
Carcinogenicity	Not listed. IAR	C - Carcinogens - Gi	roup 2B ACGIH – A3.
Reproductive Toxicity	X		
- Sexual Function and	Not classified		
Fertility			



- Development of	Not classified
Offspring	
- Effects on or via	Not classified
Lactation	
Germ Cell Mutagenicity	Genotoxicity in vivo - Rat - Oral DNA damage
Interactive Effects	None known
Other Information	None known

Section 12. Ecological Info	rmation
Ecotoxicity	Dichloromethane: LC50 193 mg/L (Lepomis macrochirus) 96 hr
	Static and flow through LC50 262 - 855 mg/L (Pimephales promelas)
	96 hr static LC50: 140.8 – 277.8 mg/L (Pimephales promelas) 96 hr
	flow through EC50 660 mg/L (Pseudokirchneriella subcapitata) 72
	hr
Persistence and	Result: < 26 % - Not readily biodegradable. Method: OECD Test
Degradability	Guideline 301C
Bioacumulative Potential	No data
Biodegradability	Not readily bio-degradable
Mobility in Soil	Potential for mobility in soil is very high.
Other Adverse Effects	None known

Section 13. Disposal Consid	derations
Disposal Considerations	Dispose of contents / container in accordance with local regulations.

Section 14. Transport Information	
UN Number	1593
UN Proper Shipping Name	Dichloromethane
Transport Hazard	6.1
Class(es)	
Packaging Group	III
Environmental Hazards	Not applicable
Bulk Transport	Not applicable
Special Precaution	Not applicable
DOT Erg#	160



Section 15. Regulatory Info	ormation
Canada – DSL Inventory	All components of this product are either on the Domestic Substances
	List (DSL), Non-Domestic Substances List (NDSL), or exempt
TSCA	All components of this product are either on the Toxic Substances
	Control Act (TSCA) Inventory List or exempt
Additional Information	None

Section 16. Other	Information
NFPA Rating	Health-2/ Flammability-1/Reactivity-0/Special Hazard-Not applicable
HMIS Rating	Health-2/Flammability-1/Reactivity-0/Personal Protection-See Section 8.
Prepared by:	Chemfax Products Ltd., Technical Department
Date Prepared:	3 August, 2012
Date of Latest Revision: 25 January 2021	

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