

Section 1. Identifica	Section 1. Identification		
Product Identifier	Methanol/Methyl Hydrate	Version: 7 Effective Date:	25 January 2021
Other Means Of Identification	Methyl alcohol		•
Initial Supplier	Chemfax Products Ltd.		
Identifier	11444 – 42 Street SE		
	Calgary, AB T2C 5C4		
	Tel: 403-287-2055		
Recommended Use	Industrial Solvent. No restrictions.		
and Restrictions			
On Use			
Product Family	Alcohol		
Emergency Phone	1-855-887-2055 Monday - Friday 8:00am	n - 4:30pm MST	

Section 2. Hazard Identification		
Hazard Classification		
Physical Hazards	Flammable Liquids - Category 2	
Health Hazards	Acute Toxicity - Oral- Category 3 Acute Toxicity - Dermal - Category 3 Acute Toxicity - Inhalation - Category 3 Eye Damage/Irritation - Category 2A Specific Target Organ Toxicity (single exposure) - Category 1	
Signal Word	Danger	
Hazard Statement	Highly flammable liquid and vapour. Toxic if swallowed. Toxic if it comes in contact with skin. Toxic if inhaled. Causes serious eye damage. Causes damage to organs (kidney, liver, eyes, and central nervous system) via inhalation, ingestion, and adsorption through skin.	
Precautionary Prevention Statement	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep contains tightly closed. Ground and bond container and receiving equipment. Use explosion proof electrical, ventilating and lighting equipment. Use non-sparking	



	tools. Take action to prevent static discharges. Wear protective
	gloves, clothing, and eye & face protection.
	Wash hands thoroughly after handling. Do not eat, drink, or smoke
	when using this product.
	Avoid inhaling dust, fume, gas, mist, vapours or spray. Only use
	outdoors, or in a well-ventilated area.
Precautionary Response	IF ON SKIN (or hair): Immediately remove all contaminated
Statement	clothing. Rinse and wash skin with water, or shower if on clothing.
	In case of fire: Use dry chemical, alcohol resistant foam, or carbon
	dioxide to extinguish.
	Seek medical attention if you feel unwell.
	Specific Treatment: Wash affected area with soap and water.
	IF SWALLOWED: Immediately call a POISON CENTRE.
	Specific Treatment: Rinse mouth thoroughly. Do not induce
	vomiting. Drink sips of water. Dilute mouth with water or milk after
	rinsing.
	IF INHALED: Remove person to fresh air and keep comfortable for
	breathing. Seek medical attention.
	Specific Treatment: Move exposed individual to fresh air. Loosen
	clothing and position individual in comfortable position. If breathing
	is difficult give oxygen.
	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 exposed or concerned: Call a POISON CENTRE
	Specific Treatment: Rinse or flush eye with plenty of water, lifting
	upper and lower lids.
Precautionary Storage	Store in a well-ventilated place. Keep container tightly closed. Keep
Statement	cool. Store locked up.
Precautionary Disposal	Dispose of contents/container in accordance with local regulations.
Statement	
Other Hazards	None

Section 3. Composition / Information on Ingredients			
Chemical Name	Common Name or Synonyms	<u>-</u>	% by weight
		Identifiers	
Methanol	Methyl alcohol	67-56-1	100

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	Rinse mouth with water if conscious. Do not induce vomiting. Lay
	victim on left side to prevent aspiration of any vomit. Seek immediate
	medical attention.
Most Important	Toxic by ingestion, inhalation or absorption through skin, potentially
Symptoms and Effects	causing irreversible effects. Irritating to eye, skin and respiratory tract.
Both Acute and Delayed	Shortness of breath, nausea, headache. May be fatal or cause blindness
	if swallowed. Cannot be made non-poisonous. May cause
	gastrointestinal irritation, vomiting and diarrhoea, central nervous
	system disorders, skin disorders, and exemplify pre-existing eye
	disorders. Danger of very serious irreversible effects by inhalation,
	ingestion or absorption through skin. Reproductive toxic effects on
	laboratory animals. May cause adverse kidney and liver effects.
Immediate Medical	Methanol is a toxic substance and can lead to blindness, as well as death.
Attention and Special	This product contains methanol which can cause intoxication and
Treatment	central nervous system depression. Methanol is metabolized to formic
	acid and formaldehyde. These metabolites can cause metabolic
	acidosis, visual disturbances and blindness. Since metabolization is
	required for these toxic symptoms, their onset may be delayed from 6
	to 30 hours following ingestion. Ethanol competes for the same
	metabolic pathway and has been used to prevent methanol metabolism.
	Ethanol administration is indicated in symptomatic patients or at blood methanol concentrations above 20 ug/dl. Methanol is effectively
	removed by haemodialysis. Fomepizole (4-methylpyrazole) is an
	effective antagonist of alcohol dehydrogenase, and as such may be used
	as an antidote in methanol poisoning.
	as an anacote in methanor poisoning.

Section 5. Fire-Fighting Measures		
Suitable and Unsuitable	Dry chemical, alcohol resistant foam, or carbon dioxide	
Extinguishing Media		
Hazardous	Carbon monoxide and dioxide	
Combustion Products		
Specific Hazards Arising	Risk of ignition. Vapours may form explosive mixtures with air.	
From the Product	Vapours may travel to sources of ignition an flash back. Containers	
	may explode when heated.	



Special Protective	Firefighters 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. Vapours from this product may travel or be moved by
Fighters	air currents, these can be ignited by sparks, flames, heaters, static
	discharge etc.

Section 6. Accidental Release Measures		
Personal Precautions,	Gloves (nitrile), coveralls (Nomex), and safety glasses.	
Protective Equipment and	Remove all sources of ignition, avoid contact with skin, eye and	
Emergency Procedures	clothing. Ensure adequate ventilation. Take precautions against static	
	discharge.	
Environmental	Do not allow product to enter surface drains and watercourses	
Precautions		
Methods and Materials	Remove all sources of ignition. Flammable vapours may travel or be	
For Containment and	transported by air currents to sources of ignition, such as pilot lights.	
Clean-Up	Pump up large volumes of product if possible, dike and soak up	
	remaining material on a suitable absorbent, place in a container for	
	disposal.	

Section 7. Handling and Storage		
Precautions For Safe	Avoid contact with eyes, skin and clothing. Ground all containers	
Handling	when in use. Keep containers closed when not in use. Keep away from	
	all sources of ignition and open flames. Do not cut or weld empty	
	containers as residues are highly flammable.	
Conditions For Safe	Store in a cool dry place away from all sources of ignition. Empty	
Storage	containers may have flammable residues present. Keep container	
	closed when not in use. Ground containers when in use.	

Section 8. Exposure Controls / Personal Protection				
Control Parameters	TWA: 8 Hr	STEL: 15 min	Ceiling	IDLH *
Methanol	200 ppm (skin) ACGIH	250 ppm (skin) ACGIH		6000 ppm
	* Immediately Dangerous to Life and Health			
Exposure Controls	Local exhaust ventilation			
Appropriate Engineering	Ensure eye wash station and safety shower are available. Ensure			
Controls	adequate ventilation.			



Individual Protective	•
Measures	
Eye / Face Protection	Wear goggles
Skin Protection	Neoprene gloves and coveralls – should be cotton or non-static generating fabric.
Respiratory Protection	Approved air purifying respirator fitted with the organic vapour cartridges should be worn.

Section 9. Physical and Chemical Properties		
Appearance	Clear, colourless liquid, with pungent odour	
Odour		
Odour Threshold	Not available.	
pH	Not applicable.	
Flash Point	12 °C	
Boiling Point and Boiling Range	64.7 °C (@ 101.32 kPa)	
Melting Point and Freezing Point	-97.8 °C	
Evaporation Rate	2.10 (butyl acetate)	
Flammability (solid, gas)	Not applicable	
Upper and Lower Flammability or	6 – 31%	
Explosive Limits		
Vapour Pressure	16.93 kPa @ 25 °C	
Vapour Density	1.110 (air = 1)	
Relative Density	0.792	
Solubility	Completely soluble	
Partition co-efficient, n-	log Pow: -0.77	
Octanol/Water		
Auto-ignition Temperature	385 °C	
Decomposition Temperature	No data	
Viscosity	No data	

Section 10. Stability and Reactivity	
Reactivity	Vapor may form explosive mixture with air.
Chemical Stability	Stable
Possibility of Hazardous	Will not occur
Reactions	
Conditions to Avoid	Avoid excessive heat, open flames and all sources of ignition.
Incompatible Materials	Avoid contact with calcium hypochlorite, hypochlorite's, peroxides,
	reactive metals such as aluminium, magnesium and sodium, strong
	acids, strong bases, strong oxidizing agents, and zinc.



Hazardous Decomposition Stable under normal conditions of use **Products**

Section 11. Toxicological Information			
Component Toxicity	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methanol	5.628 g/kg (Rat)	15.8 g/kg (Rabbit)	64000ppm, 4h (Rat)
Likely Routes of Exposure			
Skin:	-	<u> </u>	sing redness and drying of
	•	otion see note below.	
Eyes:		e eye irritation, with	pain and swelling of the
Inhalation:	conjunctiva. See note below.		
Ingestion:	See note below.		
ingestion.		fects from exposure r	nay include: Stomach or
		<u>-</u>	arrhoea), irritation (nose,
	-		m depression (dizziness,
	•	_	adache, unconsciousness),
		_	and lower back, blurred
	vision, shortness	of breath, cyanosis (cau	ses blue colouration of the
	skin and nails fro	om lack of oxygen, visi	ual impairment (including
	blindness), coma	and death.	
Acute Toxicity Estimates	Toxic		
(ATE)			
STOT (Specific Target	•	erve, gastrointestinal tra	
Organ Toxicity) – Single	system, respirator	y system, liver, spleen,	kidney, blood.
Exposure			
Aspiration Toxicity	Not classified		
STOT (Specific Target	Not classified		
Organ Toxicity) – Repeated			
Exposure	Tunitartius		
Skin Corrosion / Irritation	Irritating		
Serious Eye Damage / Irritation	Irritating		
	Consitization not	dianlayad in laboratory	onimals when following
Respiratory or Skin Sensitization	OECD Test Guide		animals when following
Carcinogenicity	Not listed.	cime roo.	
Reproductive Toxicity	1,00 1100001		
- Sexual Function and	Not classified		
Fertility			



- Development of	Developmental effects have occurred in laboratory animals.
Offspring	
- Effects on or via	Not classified
Lactation	
Germ Cell Mutagenicity	Genotoxicity in vitro – in vitro assay – S. typhimurium – with and
	without metabolic activation – negative
Interactive Effects	None known
Other Information	None known

Section 12. Ecological Information	
Ecotoxicity	Methanol: LC50: 13 mg/l (Oncorhynchus mykiss) LC50: 29400 mg/l (Pimephales promelas)
Persistence and	72% - Readily biodegradable
Degradability	
Bioacumulative Potential	No data
Biodegradability	Expected to be completely biodegradable
Mobility in Soil	No data
Other Adverse Effects	None known

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

Section 14. Transport Information	
UN Number	1230
UN Proper Shipping Name	Methanol / Methyl hydrate
Transport Hazard	3 (6.1)
Class(es)	
Packaging Group	II
Environmental Hazards	Not applicable
Bulk Transport	Not applicable
Special Precaution	Not applicable
DOT Erg#	131
Limited quantity	1 L

Section 15. Regulatory Information



	<u> </u>
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-3/Reactivity-0/Special Hazard-Not applicable
HMIS Rating	Health-2/Flammability-3/Reactivity-0/Personal Protection-See Section 8.
Prepared by:	Chemfax Products Ltd., Technical Department
Date Prepared:	18 August, 2011
Date of Latest Revision: 25 January 2021	

DisclaimerNotice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Chemfax Products Ltd. expressly disclaims all expressed or implied warranties of merchantability and fitness for a particular purpose with respect to the product provided.