

SAFETY DATA SHEET

1. Identification

Product identifier	Methanol
Other means of identification	
CAS number	67-56-1
Synonyms	Methyl alcohol, Carbinol, Methyl hydrate, Methyl hydroxide, Monohydroxymenethane
Recommended use	General purpose solvent.
Recommended restrictions	Refer to the alcohol control authority in which the product is to be used - Canada Revenue Agency (Excise) in Canada, US Tax and Trade Bureau in the US, etc.
Manufacturer/Importer/Supplier/	/Distributor information
Company name	Greenfield Global Inc.
Address	6985 Financial Drive
	Missisauga, Ontario L5N 0G3
	Canada
Telephone	(905) 790-7500
Website	http://www.greenfield.com
Emergency phone number	CHEMTREC: 1-800-424-9300

2. Hazard identification

Physical hazards	Flammable liquids	Category 2
Health hazards	Acute toxicity, oral	Category 3
	Acute toxicity, dermal	Category 3
	Acute toxicity, inhalation	Category 3
	Specific target organ toxicity following single exposure	Category 1 (central nervous system, optic nerve)

Label elements

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Signal word	Danger
Hazard statement	Highly flammable liquid and vapour. Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled. Causes damage to organs (central nervous system, optic nerve).
Precautionary statement	
Prevention	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Do not breathe mist/vapours. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
Response	IF SWALLOWED: Immediately call a POISON CENTRE/doctor. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor. Take off immediately all contaminated clothing and wash it before reuse. In case of fire: Use water fog, alcohol-resistant foam, dry chemical powder, carbon dioxide to extinguish.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards	None known.

3. Composition/information on ingredients

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Substances			
Chemical name	Common name and synonyms	CAS number	%
Methanol	Methyl alcohol Carbinol Methyl hydrate Methyl hydroxide Monohydroxymenethane	67-56-1	100
Composition comments	All concentrations are in percent by weight ur	nless otherwise indicated.	
4. First-aid measures			
Inhalation	Remove victim to fresh air and keep at rest in artificial respiration if needed. Do not use more Induce artificial respiration with the aid of a per- proper respiratory medical device. Call a pois	uth-to-mouth method if victim in ocket mask equipped with a one	haled the substance.
Skin contact	Take off immediately all contaminated clothin advice/attention if you feel unwell. Get medica contaminated clothing before reuse.		
Eye contact	Immediately flush eyes with plenty of water for present and easy to do. Continue rinsing. Get		
Ingestion	Call a physician or poison control centre imm advice from poison control center. If vomiting doesn't get into the lungs. Do not use mouth- Induce artificial respiration with the aid of a po proper respiratory medical device.	occurs, keep head low so that to-mouth method if victim inges	stomach content ted the substance.
Most important symptoms/effects, acute and delayed	Narcosis. Headache. Dizziness. Nausea, von functions. Direct contact with eyes may cause		crease in motor
uelayeu	Methanol: Human exposure to methanol may nerve damage and perhaps death, after being Death due to cardiac or respiratory failure has as little as 30 mls.	g ingested, absorbed through th	e skin or inhaled.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and tre immediately. While flushing, remove clothes ambulance. Continue flushing during transpo observation. Symptoms may be delayed.	which do not adhere to affected	area. Call an
General information	Take off immediately all contaminated clothin label where possible). Ensure that medical per take precautions to protect themselves. Show Wash contaminated clothing before reuse.	ersonnel are aware of the mater	ial(s) involved, and
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Alcohol resistant foam. Dry chemic water spray may be inefficient.	cal powder. Carbon dioxide (CC	02). Caution: use of
Unsuitable extinguishing	Do not use water iet as an extinguisher, as th	is will spread the fire	

Unsuitable extinguishing Do not use water jet as an extinguisher, as this will spread the fire. media

Highly flammable liquid and vapour.

Specific hazards arising from Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. Combustion products may include: carbon oxides. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special protective equipment and precautions for firefighters

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

the chemical

Fire fighting

Specific methods

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is
	possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
	Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist/vapours. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values Material	Туре	Value
Methanol (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm
Canada. Alberta OELs (Occupational He	-	-
Material	Туре	Value
Methanol (CAS 67-56-1)	STEL	328 mg/m3
		250 ppm
	TWA	262 mg/m3
		200 ppm
Canada. British Columbia OELs. (Occup Safety Regulation 296/97, as amended)	ational Exposure Limits for Chemic	al Substances, Occupational Health and
Material	Туре	Value
Methanol (CAS 67-56-1)	STEL	250 ppm

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

TWA

Material	Туре	Value
Methanol (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm

200 ppm

Canada. Ontario OELs. (Con Material	=	e to Biological of Ci Type		lue
Methanol (CAS 67-56-1)	S	STEL	25	0 ppm
	Т	ΓWA	20	0 ppm
Canada. Quebec OELs. (Mini Material		Regulation respecti Type		health and safety) Ilue
Methanol (CAS 67-56-1)	5	STEL	32	8 mg/m3
			25	0 ppm
	Г	-WA	26	2 mg/m3
			20	0 ppm
Canada. Saskatchewan OEL Material		Health and Safety	-	6, Table 21) Ilue
Methanol (CAS 67-56-1)	1	5 minute	25	0 ppm
	8	3 hour	20	0 ppm
iological limit values				
ACGIH Biological Exposure	Indices alue	Determinant	Specimen	Sampling Time
Methanol (CAS 67-56-1) 15	i mg/l	Methanol	Urine	*
* - For sampling details, please	e see the source	document.		
xposure guidelines				
Canada - Alberta OELs: Skin	designation			
Methanol (CAS 67-56-1) Canada - British Columbia O	ELs: Skin desig		be absorbed throu	ıgh the skin.
Methanol (CAS 67-56-1) Canada - Manitoba OELs: Sk	in designation	Can	be absorbed throu	igh the skin.
Methanol (CAS 67-56-1) Canada - Ontario OELs: Skin	designation	Dan	ger of cutaneous a	bsorption
Methanol (CAS 67-56-1) Canada - Quebec OELs: Skir	designation	Can	be absorbed throu	igh the skin.
Methanol (CAS 67-56-1) Canada - Saskatchewan OEL	.s: Skin designa	ation	be absorbed throu	-
Methanol (CAS 67-56-1) US ACGIH Threshold Limit V	alues: Skin des		be absorbed throu	igh the skin.
Methanol (CAS 67-56-1)			ger of cutaneous a	
ppropriate engineering ontrols	Ventilation rate exhaust ventilat exposure limits	s should be matched tion, or other engined	to conditions. If ap ering controls to ma ave not been estab	Good general ventilation should be used. oplicable, use process enclosures, local aintain airborne levels below recommended lished, maintain airborne levels to an shower.
dividual protection measures, s Eye/face protection	-	al protective equipr asses with side shield		
Skin protection Hand protection	gloves can be r		glove supplier. Be	per gloves are recommended. Other suitabl aware that the liquid may penetrate the
Other	Wear appropria	te chemical resistan	clothing. Use of a	n impervious apron is recommended.
Respiratory protection	limits (where ap been establishe above the expo	oplicable) or to an ac ed), an approved res sure limit they must	ceptable level (in contractor must be wor	ntrations below recommended exposure ountries where exposure limits have not rn. When workers are facing concentrations rtified respirators. Respirator type: Chemic ece.
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When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

•	•
Appearance	
Physical state	Liquid.
Form	Liquid.
Colour	Clear. Colorless.
Odour	Not available.
Odour threshold	Not available.
рН	Not available.
Melting point/freezing point	-98 °C (-144.4 °F)
Initial boiling point and boiling range	64 °C (147.2 °F) 101.325 kPa
Flash point	11 °C (51.8 °F) Closed cup 15.6 °C (60.08 °F)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	6 %
Flammability limit - upper (%)	36 %
Vapour pressure	130.3 hPa (20 °C (68 °F))
Vapour density	1.1
Relative density	0.791 g/ml (25 °C (77 °F))
Solubility(ies)	
Solubility (water)	Completely miscible
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	464 °C (867.2 °F)
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Molecular formula	C-H4-O
Molecular weight	32.04 g/mol
Oxidising properties	Not oxidising.
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.

Conditions to avoidAvoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the
flash point. Contact with incompatible materials.Incompatible materialsStrong oxidising agents.

Hazardous decomposition No hazardous decomposition products are known.

products 11. Toxicological information

Inhalation

Information on likely routes of exposure

Toxic if inhaled. May cause damage to organs by inhalation.

Skin contact	Toxic in contact with skin.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Toxic if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Narcosis. Headache. Dizziness. Nausea, vomiting. Behavioural changes. Decrease in motor functions. Methanol: Human exposure to methanol may result in illness, systemic poisoning, blindness, optic nerve damage and perhaps death, after being ingested, absorbed through the skin or inhaled. Death due to cardiac or respiratory failure has been reported in some cases from consumption of as little as 30 mls.
Information on toxicological effe	ects
Acute toxicity	Toxic if inhaled. Toxic in contact with skin. Toxic if swallowed.
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitisation	
Respiratory sensitisation	Not a respiratory sensitiser.
Skin sensitisation	This product is not expected to cause skin sensitisation.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Not available.
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Causes damage to organs (central nervous system, optic nerve).
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged inhalation may be harmful.
12. Ecological information	
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	The product is readily biodegradable.
Bioaccumulative potential	The product is not expected to bioaccumulate.
Mobility in soil	Expected to be highly mobile in soil.
Other adverse effects	No data available.
13. Disposal consideration	IS
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

TDG	
UN number	UN1230
UN proper shipping name	Methanol
Transport hazard class(es)	
Class	3
Subsidiary risk	6.1
Packing group	II

Environmental hazards No Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

• •	Read safety instructions, SDS and emergency procedures before handling.
ΙΑΤΑ	
UN number	UN1230
UN proper shipping name	Methanol
Transport hazard class(es)	
Class	3
Subsidiary risk	6.1
Label(s)	3
Label(S)	+6.1
Packing group	
Environmental hazards	No
ERG Code	3P
	Read safety instructions, SDS and emergency procedures before handling.
IMDG	Read salety instructions, 505 and emergency procedules before handling.
-	
UN number	UN1230
UN proper shipping name	Methanol
Transport hazard class(es)	
Class	3
Subsidiary risk	6.1
Label(s)	3
	+6.1
Packing group	II
Environmental hazards	
Marine pollutant	No
EmS	F-E, S-D
	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	This substance/mixture is not intended to be transported in bulk.
Annex II of MARPOL 73/78 and	This substance/mixture is not intended to be transported in bulk.
ATTIEX II OF WARFOL 13/10 and	
the IBC Code	
the IBC Code	
15. Regulatory information	
	This product has been classified in accordance with the hazard criteria of the HPR and the SDS
15. Regulatory information Canadian regulations	This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.
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Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Issue date	20-May-2021
Revision date	12-December-2023
Version No.	02
Disclaimer	This product is subject to Greenfield Global Inc.'s terms and conditions, which can be found at http://www.greenfield.com/tc-po-can/. The information in this SDS is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. The information in this safety data sheet must be regarded as a description of the safety requirements relating to the material and not as a guarantee of the properties thereof. No warranty guarantee or representation is made to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy itself as to the suitability of such information for its own particular use. This information relates only to the specific product designated and may not be valid for such product used in combination with any other materials or in any process. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations applicable to the use, storage, or handling of the product. THE COMPANY MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY.

OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANIABILITY, FITNESS FOR A PARTICULAR PURPOSE, COURSE OF PERFORMANCE, OR USAGE OF TRADE, ALL OF WHICH ARE EXPRESSLY DISCLAIMED. Given the variety of factors that can affect the use and application of the product, which are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to independently determine whether it is fit for a particular purpose, suitable, safe, and/or lawful for user's method of use or application.