

# SAFETY DATA SHEET

## 1. Identification

Product identifier	Methanol		
Other means of identification			
Product code	KMe_CH3OH_CA_EN		
CAS number	67-56-1		
Recommended use	Industrial feedstock.		
<b>Recommended restrictions</b>	Use in accordance with sup	plier's recommend	lations.
Manufacturer/Importer/Suppl	er/Distributor information		
Manufacturer			
Company name Address	Koch Methanol, LLC P.O. Box 2219, Wichita, KS 67	201-2219	
Telephone	316-828-7672		
E-mail	kochmsds@kochind.com		
Emergency phone number	For Chemical Emergency Call CHEMTREC day or night USA/Canada Outside USA/Canada (collect calls accepted)	- 1.800.424.930 - 1.703.527.388	-
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 exposure	/ following single	Category 1 (central nervous system, optic nerve)
l abol olomonte			

#### Label elements



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 appropriate media to extinguish. In case of fire: Use alcohol-resistant foam, carbon dioxide, dry powder to extinguish.
Storage	Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations. Not assigned.
Supplemental information	None.

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapour. May cause flash fire or explosion.

### 3. Composition/information on ingredients

### Substances

Chemical name	Common name and synonyms	CAS number	%
Methanol		67-56-1	> 99
Composition comments	All concentrations are in percent by weight un percent by volume. This Safety Data Sheet is not a guarantee of on specified sales orders, customer invoices, supplier.	product specification or NPK va	alue(s). NPK content i
4. First-aid measures			
Inhalation	Remove victim to fresh air and keep at rest in artificial respiration if needed. Do not use mo Induce artificial respiration with the aid of a po 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 medic contaminated clothing before reuse.		
Eye contact	Immediately flush eyes with plenty of water for present and easy to do. Continue rinsing. Ge		
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	Prolonged and repeated exposure to high vap methanol may result in visual disturbances, n insomnia, gastric disturbance, dizziness, and reported of blindness, coma and death due to may cause temporary irritation.	netabolic acidosis, headache, g slow breathing. There have be	iddiness, nausea, en severe cases
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. Carbon did sand or earth may be used for small fires only		der, carbon dioxide,
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as the	nis will spread the fire. Water ma	ay be ineffective.
Specific hazards arising from the chemical	Vapours may form explosive mixtures with ai source of ignition and flash back. During fire, Combustion products may include: carbon o	gases hazardous to health may	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full p Selection of respiratory protection for firefight the workplace.		
Fire fighting equipment/instructions	In case of fire and/or explosion do not breath so without risk. Fight fire from protected locat fire-exposed containers cool. Prevent runoff f sewers or drinking water supply.	ion or safe distance. Use water	spray to keep
Specific methods	Use standard firefighting procedures and con	isider the hazards of other invol	ved materials.

### 6. Accidental release measures

0. Accidental release mea	50165
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. Wipe up with absorbent material. 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/pers	onal protection

## 8. Exposure controls/personal protection

### **Occupational exposure limits**

US. ACGIH Threshold Limit Value Material	es Туре	Value
Methanol (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm
Canada. Alberta OELs (Occupati	onal Health & Safety Code, Sch	edule 1, Table 2)
Material	Туре	Value
Methanol (CAS 67-56-1)	STEL	328 mg/m3
		250 ppm
	TWA	262 mg/m3
		200 ppm
Canada. British Columbia OELs. Safety Regulation 296/97, as ame		s for Chemical Substances, Occupational Health and
Material	Туре	Value
material		
	STEL	250 ppm
Methanol (CAS 67-56-1)	STEL TWA	250 ppm 200 ppm
	TWA	200 ppm
Methanol (CAS 67-56-1)	TWA	200 ppm

Material		he Workplace Safety Type	Va	lue
		TWA	20	0 ppm
Canada. New Brunswick Publication (New Bruns			Based on the 199	1 and 1997 ACGIH TLVs and BEIs
Material		Туре	Va	lue
Methanol (CAS 67-56-1)		STEL	32	8 mg/m3
			25	0 ppm
		TWA	26	2 mg/m3
			20	0 ppm
Canada. Ontario OELs.	(Control of Exposi	ure to Biological or Ch	emical Agents)	
Material		Туре	Va	lue
Methanol (CAS 67-56-1)		STEL	25	0 ppm
		TWA	20	0 ppm
Canada. Quebec OELs. Material	(Ministry of Labor	- Regulation respection Type		health and safety) Ilue
Methanol (CAS 67-56-1)		STEL	32	8 mg/m3
, , , , , , , , , , , , , , , , , , ,				0 ppm
		TWA	26	2 mg/m3
				0 ppm
Canada. Saskatchewan Material	OELs (Occupatior		Regulations, 1990	6, Table 21)
		Туре	Vä	lue
ogical limit values	sure Indices	15 minute 8 hour		0 ppm 0 ppm
Methanol (CAS 67-56-1) logical limit values ACGIH Biological Expos Material	sure Indices Value			
logical limit values ACGIH Biological Expos		8 hour	20	0 ppm
ogical limit values ACGIH Biological Expos Material	Value 15 mg/l	8 hour Determinant Methanol	20 Specimen	0 ppm Sampling Time
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ACGIH Biological Expos Material Methanol (CAS 67-56-1) * - For sampling details, p posure guidelines Canada - Alberta OELs: Methanol (CAS 67-56	Value 15 mg/l lease see the source Skin designation 5-1) bia OELs: Skin des 5-1)	8 hour  Determinant  Methanol  ce document.  Can  signation Can	20 <b>Specimen</b> Urine	0 ppm Sampling Time * ugh the skin.
ACGIH Biological Expose Material Methanol (CAS 67-56-1) * - For sampling details, p oosure guidelines Canada - Alberta OELs: Methanol (CAS 67-56 Canada - British Columb Methanol (CAS 67-56	Value 15 mg/l lease see the source Skin designation 5-1) bia OELs: Skin designatio 5-1) s: Skin designatio 5-1)	8 hour  Determinant  Methanol  ce document.  Can  signation  Can	20 Specimen Urine be absorbed throu	0 ppm Sampling Time * ugh the skin. ugh the skin.
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Skin protection	
Hand protection	Wear appropriate chemical resistant gloves. Recommended use: Glove material: Butyl rubber. Use gloves with breakthrough time of >480 minutes. Minimum glove thickness 0.7 mm.
Other	Wear appropriate chemical resistant clothing. The following protective clothing is recommended: apron, disposable coveralls.
Respiratory protection	Chemical respirator with organic vapour cartridge and full facepiece. Wear NIOSH approved respirator appropriate for airborne exposure at the point of use. Appropriate respirator selection should be made by a qualified professional.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	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

Methanol	SDS Cana
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Chemical stability	Material is stable under normal conditions.
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10. Stability and reactivity	,
Surface tension	22.61 mN/m (20 °C (68 °F))
Oxidising properties	Not oxidising.
Molecular weight	32.04 g/mol
Explosive properties	Not explosive.
Density	> 0.79 - < 0.8 g/cm³
Other information	
Viscosity	Not available.
Decomposition temperature	Not determined.
Auto-ignition temperature	455 °C (851 °F)
Partition coefficient (n-octanol/water)	-0.77 (20 °C (68 °F)) estimated
Solubility (water)	Not determined.
Solubility(ies)	Not determined
Relative density	> 0.79 - < 0.8 (20 °C (68 °F))
Vapour density	1.1 (air=1.0)
Vapour pressure	Not determined.
(%)	
Explosive limit – upper	Not determined.
Explosive limit - lower (%)	Not determined.
Upper/lower flammability or exp	losive limits
Flammability (solid, gas)	Not applicable.
Evaporation rate	2.1 (butyl acetate = 1)
Flash point	9.7 °C (49.46 °F) Closed cup
range	
Melting point/freezing point Initial boiling point and boiling	-97.8 °C (-144.04 °F) estimated 64.7 °C (148.46 °F) at 760 mmHg
pH Molting point/freezing point	Property has not been measured.
Odour threshold	2000 ppm
Odour	Characteristic odour. Pungent.
Colour	Colourless.
Form	Liquid.
Physical state	Liquid.
Appearance	
	. •

Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong acids. Strong bases. Strong oxidising agents. Metals. Hydrogen peroxide (H2O2).
Hazardous decomposition products	No hazardous decomposition products are known.
11. Toxicological information	tion
Information on likely routes of e	exposure
Inhalation	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	Aspiration may cause pulmonary oedema and pneumonitis. Be aware that symptoms of lung oedema (shortness of breath) may develop up to 24 hours after exposure. Narcosis. Headache. Dizziness. Nausea, vomiting. Behavioural changes. Decrease in motor functions. Direct contact with eyes may cause temporary irritation.
	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 eff	ects
Acute toxicity	Toxic by inhalation, in contact with skin and if swallowed.
Skin corrosion/irritation	Repeated exposure may cause skin dryness or cracking.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitisatio	n
Respiratory sensitisation	Not a respiratory sensitiser.
Skin sensitisation	Not a skin sensitiser.

any components present at greater than 0.1% are
humans.
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## 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	Not expected to bioaccumulate on the basis of the low octanol-water partition coefficient.
Partition coefficient n-octand -0.77	ol / water (log Kow)
Mobility in soil	The product is completely soluble in water. Expected to be mobile in soil.
Other adverse effects	The product is a volatile organic compound which has a photochemical ozone creation potential.
13. Disposal consideration	S
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	
Environmental hazards	No.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
UN number	UN1230
UN proper shipping name	Methanol
Transport hazard class(es)	
Class	3
Subsidiary risk	6.1
Packing group	I
Environmental hazards	No
ERG Code	3L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
IMDG	
UN number	UN1230
UN proper shipping name	METHANOL
Transport hazard class(es)	
Class	3
Subsidiary risk	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 product is a liquid and when transported in bulk is covered under MARPOL 73/78 Annex II.
Annex II of MARPOL 73/78 and	This product is listed in the IBC Code. Product name: Methyl alcohol
the IBC Code	Ship type: 3

### 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.

Pollution category: Y

Controlled Drugs and Substances Act Not regulated. Export Control List (CEPA 1999, Schedule 3) Not listed. Greenhouse Gases Not listed. Ontario. Toxic Substances. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011) Methanol (CAS 67-56-1) Precursor Control Regulations Not regulated. International regulations

The product hazard category is: S/P

### Stockholm Convention Not applicable. Rotterdam Convention Not applicable. Kyoto Protocol Not applicable. Montreal Protocol Not applicable. Basel Convention 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 Revision date Version No.	24-April-2023 - 01
List of abbreviations	CAS: Chemical Abstract Service. IARC: International Agency for Research on Cancer. IMDG: International Maritime Dangerous Goods. TWA: Time Weighted Average.
Disclaimer	NOTICE: The information contained in this document is based on data considered to be accurate as of the preparation date of this Safety Data Sheet (SDS) and was prepared pursuant to applicable Government regulation(s). This SDS may not be used as a commercial specification sheet of manufacturer or seller, and no warranty or representation, expressed or implied, is made as to the accuracy or comprehensiveness of the above data and safety information, nor is any authorization given or implied to practice any patented invention without a license. Additional information may be needed to evaluate other uses of the product, including use of the product in combination with any materials or in any processes other than those specifically referenced. Information provided about any hazards that may be associated with the product is not meant to suggest that use of the product in a given application will necessarily result in any exposure or risk to workers or the general public. Purchasers and users of the product are responsible for determining that this product is suitable for the intended use and application. No responsibility can be assumed by vendor for any damage or injury resulting from failure to adhere to recommended uses, or from any hazards inherent to the product. Purchasers and users assume all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. Purchasers who will use the product should explicitly advise their employees, agents, contractors and customers who will use the product of this SDS.