



Section 1. Identification

CHS Inc. P.O. Box 64089 Mail station 525 St. Paul, MN 55164-	0089	·	Emergency (CHEMTREC) Technical Information SDS Information	:	1-800-424-9300 1-651-355-8443 1-651-355-8445
Product name	:	METHANOL	SDS no.	:	0140-J4X0.HL
Common name	:	Not available.	Review date	:	06/30/2021
Chemical name	:	Methanol, Methyl Alcohol, Wood Alcohol, Anhydrous Methyl Alcohol	Chemical formula	:	Mixture
Chemical family	:	Not available.			

Relevant identified uses of the substance or mixture and uses advised against

Not available.

Section 2. Hazards identification

Classification of the substance or : FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (drmal) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 GHS label elements Hazard pictograms Image: Comparison of the substance or toxic of the substance or town or toxic or toxic of the substance or toxi		
mixture ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 GHS label elements Hazard pictograms Signal word : Danger Hazard statements : H225 - Highly flammable liquid and vapor. H301 + H311 + H331 - Toxic if swallowed, in contact with skin or if inhaled. H370 - Causes damage to organs. Precautionary statements : General : Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof e ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take pf measures against static discharge. Keep container tightly closed. Use only outdoors or in a w area. Do not berathe wapor. Do not eat, drink or smoke when using this product. Wash hand after handling. Response : If exposed: Call a POISON CENTER or physician. IF INHALED: Remove person to fresh all cothing. Rinse skin with water or shower. IF ON SKIN (or hair): Take of immediately all containate wash it before reuse. Wash with plenty of soap and water. Call a POISON CENTER or physician. IF SWALLOWED: Immediately all cothing. Rinse skin with water or shower. IF ON SKIN (or hair): Take of immediately all cothing. Times skin with water or shower. IF ON SKIN (or hair): Take of immediately all cothaninate wash it before reuse. Wash with plenty of soap	tatus : This	material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
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	e Protection Association (U.S.A	.) Health : 2 Flammability : 3 Instability : 0

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Section 3. Composition/information on ingredients

Substance/mixture	:	Substance		
Chemical name : Methanol, Methyl Alcohol, Wood Alcohol, Anhydrous Methyl Alcohol				
Other means of identification		Not available.		
Ingredient name			%	CAS number

Ingredient name	%	CAS number
Methanol	100	67-56-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

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Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention. If necessary, call a poison center or physician.
Inhalation	 Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	 Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the
	medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Most important symptoms/effects,	
Potential acute health effects	
Eye contact	: No known significant effects or critical hazards.
Inhalation	: Toxic if inhaled.
Skin contact	: Toxic in contact with skin.
Ingestion	: Toxic if swallowed.
Over-exposure signs/symptoms	
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Indication of immediate medical	ttention and special treatment needed, if necessary
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
See toxicological information (Se	ction 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Dry Chemical, Foam, Carbon Dioxide (CO ₂), Water (fog pattern).
Unsuitable extinguishing media	 Vapors are heavier than air and may travel along the ground to a source of ignition (pilot light, heater, electric motor) some distance away. Containers, drums (even empty) can explode when heat (welding, cutting, etc.) is applied.
Specific hazards arising from the chemical Hazardous thermal decomposition products	 Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. No specific data.
Special protective actions for fire-fighters Special protective equipment for fire-fighters	 Water may be ineffective on flames, but should be used to keep fire-exposed containers cool. Water or foam sprayed into container of hot burning product could cause frothing and endanger fire fighters. Large fires, such as tank fires, should be fought with caution. If possible, pump the contents from the tank and keep adjoining structures cool with water. Avoid spreading burning liquid with water used for cooling purposes. Do not flush down public sewers. Avoid inhalation of vapors. Firefighters should wear self-contained breathing apparatus. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Section 6. Accidental release measures

Personal precautions, protective e	quipment and emergency procedures
For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Methods and materials for contain	iment and cleaning up
Spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
	Section 7. Handling and storage
Precautions for safe handling	
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use

	explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and
hygiene	processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for
	additional information on hygiene measures. Remove contaminated clothing and protective equipment before entering eating areas.
Conditions for safe storage,	: Store in accordance with local regulations. Store in a segregated and approved area. Store in original
including any incompatibilities	container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible
	materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from
	oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been
	opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials
	before handling or use.
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Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits	
Methanol	ACGIH TLV (United States, 3/2017). Absorbed through skin.TWA: 200 ppm 8 hours.TWA: 262 mg/m³ 8 hours.STEL: 250 ppm 15 minutes.STEL: 328 mg/m³ 15 minutes.NIOSH REL (United States, 10/2016). Absorbed through skin.TWA: 200 ppm 10 hours.TWA: 200 ppm 10 hours.STEL: 325 mg/m³ 15 minutes.STEL: 250 ppm 15 minutes.STEL: 325 mg/m³ 15 minutes.STEL: 325 mg/m³ 15 minutes.STEL: 326 mg/m³ 15 minutes.TWA: 200 ppm 8 hours.TWA: 200 ppm 8 hours.TWA: 260 mg/m³ 8 hours.	
Appropriate engineering controls	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.	
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.	
ndividual protection measures		
Hygiene measures Eye/face protection	 Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. 	
Skin protection		
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.	
Body protection	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. 	
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being	
Respiratory protection	 performed and the risks involved and should be approved by a specialist before handling this product. Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. 	

Section 9. Physical and chemical properties

Appearance		Relative density	: 0.79
Physical state	: Liquid.	Evaporation rate	: 2.1 (Butyl acetate = 1)
Color	: Colorless. Clear.	Solubility	: Not available.
Odor	: Characteristic.	Solubility in water	: 1000 g/l
Odor threshold	: Not available.	Partition coefficient: n-	: -0.77
рН	: Not available.	octanol/water	
Melting point	: -97.8°C (-144°F)	Auto-ignition temperature	: 455°C (851°F)
Boiling point	: 64.7°C (148.5°F)	Decomposition temperature	: Not available.
Flash point	: Closed cup: 9.7°C (49.5°F)	SADT	: Not available.
Flammability	: Not available.	Viscosity	: Dynamic (room temperature): 0.54 to 0.59 mPa·s (0.54 to 0.59 cP)
		Vapor pressure	: 16.9 kPa (126.96 mm Hg) [room temperature]

Lower and upper : Lower: 6% explosive (flammable) Upper: 44% Vapor dens limits Vapor dens	ity : 1.1 [Air = 1]
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Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

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Product/ingredient name	Result	Species	Dose	Exposure
Methanol	LC50 Inhalation Gas. LC50 Inhalation Gas. LD50 Dermal LD50 Oral	Rat Rat Rabbit Rat	145000 ppm 64000 ppm 15800 mg/kg 5600 mg/kg	1 hours 4 hours - -
Irritation/Corrosion				·
Skin	: There is no data available.			
Eyes	: There is no data available.			
Respiratory	: There is no data available.			
<u>Sensitization</u>				
Skin	:			
Respiratory	: There is no data available.			
<u>Mutagenicity</u>				
There is no data available.				
Carcinogenicity				
There is no data available.				
Reproductive toxicity				
There is no data available.				
<u>Teratogenicity</u>				
There is no data available.				
<u>Specific target organ toxicity (si</u>	ingle exposure)			
Name		Category	Route of exposure	Target organs

		•••••	
Methanol	Category 1	Not determined	Not determined
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Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

Information on the likely routes of : Dermal contact. Eye contact. Inhalation. Ingestion.

exposure

Section 12. Ecological information

Product/ingredient name	Result		Species		Exposure
Methanol	Acute LC50 2500000 µg/L Marine wat Acute LC50 3289 mg/L Fresh water Acute LC50 290 mg/L Fresh water	er	Crustaceans - Crangon crangon - Adult Daphnia - Daphnia magna - Neonate Fish - Danio rerio - Egg		48 hours 48 hours 96 hours
Persistence and degradability					
There is no data available.					
Bioaccumulative potential					
Product/ingredient name	LogPow	BCF		Potential	
Methanol	-0.77	<10		low	
<u>Mobility in soil</u>					
Soil/water partition coefficient (Koc)	: There is no data available.				
Other adverse effects	: No known significant effects or crit	ical hazards.			
	C C		rationa		
	Section 13. Dispos	ai conside	auons		
	Incineration or landfill should only b		when recycling is not feasible		
		Care should b iners or liners able or explos ave been clea terways, drain	when recycling is not feasible be taken when handling em may retain some product re- sive atmosphere inside the c ined thoroughly internally. A s and sewers.	pty containers that esidues. Vapor fr container. Do not	and its containe at have not been rom product t cut, weld or
DOT IDENTIFICATION NUMBER U	Incineration or landfill should only b must be disposed of in a safe way. cleaned or rinsed out. Empty conta residues may create a highly flamm grind used containers unless they h and runoff and contact with soil, wa Section 14. Trans	Care should l iners or liners able or explos ave been clea terways, drain port inform	when recycling is not feasible be taken when handling em may retain some product re- sive atmosphere inside the c ined thoroughly internally. A s and sewers.	pty containers that esidues. Vapor fr container. Do not	and its containe at have not beer rom product t cut, weld or
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Name	Classification
Methanol	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
SARA 313	 This product (does/not) contain toxic chemicals subject to the reporting requirements of SARA Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

Ρ	Product name	CAS number	%
N	lethanol	67-56-1	60 - 100

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts	:	This material is listed.
New York	:	This material is listed.
New Jersey	:	This material is listed.
Pennsylvania	:	This material is listed.

California Prop. 65

WARNING: This product can expose you to Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Ingredient name	0	Maximum acceptable dosage level
Methanol	-	Yes.

Section 16. Other information

Review date	: 06/30/2021	Supersedes		
Revised Section(s)	: None	Prepared by	:	KMK Regulatory Services Inc.

Notice to reader

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