Methanol

Section 1

CAROLINA® www.carolina.com

Product Description

Product Name: Recommended Use: Synonyms: Distributor: Methanol Science education applications Carbinol; , Methyl Alcohol; , Wood Alcohol Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;



Section 2



Highly flammable liquid and vapor. Toxic if swallowed, in contact with skin or if inhaled. Causes damage to organs.

GHS Classification:

Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1, Flammable Liquid Category 2, Acute Toxicity - Inhalation Dust / Mist Category 3, Acute Toxicity - Inhalation Vapor Category 3, Acute Toxicity - Inhalation Gas Category 3, Acute Toxicity - Dermal Category 3, Acute Toxicity - Oral Category 3

Other Safety Precautions:

IF exposed: Call a POISON CENTER or doctor/physician.

Section 3	Composition / Information on Ingredients				
<u>Chemical Name</u> Methanol			<u>CAS #</u> 67-56-1	<u>%</u> 100	
Section 4		First Aid Me	easures		
Eyes:In caSkin Contact:IF Of	HALED: Remove vic se of contact with ey N SKIN (or hair): Ren	tim to fresh air and keep at res, rinse immediately with p nove/Take off immediately a N: Wash with plenty of soap	lenty of water and all contaminated of	d seek medical advice.	use.
Ingestion: IF SV	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.				
Section 5		Firefighting P	rocedures		
Extinguishing Media: Fire Fighting Methods and Pr	-	/ chemical, CO2 or appropriation		nd NIOSH approved self-contained	d

Fire and/or Explosion Hazards:

Hazardous Combustion Products:

Spill or Leak Procedures

Carbon dioxide, Carbon monoxide

Vapors may travel back to ignition source. Closed Containers exposed to heat may

breathing apparatus.

explode.

Methanol

Section 6

Steps to Take in (Released or Spill	ed: ec ne cir ar sp Pr to re gr Sł	xposure to the spilled material may be severely irritating or toxic. Follow personal protective quipment recommendations found in Section 8 of this SDS. Personal protective equipment eeds must be evaluated based on information provided on this sheet and the special rcumstances created by the spill including; the material spilled, the quantity of the spill, the rea in which the spill occurred, and the expertise of employees in the area responding to the bill. Never exceed any occupational exposure limits. revent the spread of any spill to minimize harm to human health and the environment if safe od so. Wear complete and proper personal protective equipment following the ecommendation of Section 8 at a minimum. Dike with suitable absorbent material like ranulated clay. Gather and store in a sealed container pending a waste disposal evaluation. hut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area.				
Section 7		Handling a	nd Storage			
Handling: Storage: Storage Code:	Ground/bond containe equipment. Use only dust/fume/gas/mist/va product. Use only out protection/face protect Keep container tightly ventilated place. Keep	Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting// equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do no 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. Keep container tightly closed. Store in a well-ventilated place. Keep container tightly closed. Store in a well- ventilated place. Keep cool. Store locked up. Keep container tightly closed in a cool, well-ventilated place. Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials.				
Section 8		Protection I	nformation			
<u>Chemical Name</u> Methanol		ACGIH OSHA PEL (TWA) (STEL) (TWA) (ST 200 ppm TWA 250 ppm STEL 200 ppm TWA; 260 N/ mg/m3 TWA N/ M/ M/				
Control Parameter Engineering Meas Personal Protecti	-	Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure. E): Lab coat, apron, eye wash, safety shower.				

(PE): Lab coat, apron, eye wash, safety shower. Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. NIOSH approved air purifying respirator with organic vapor cartridge and HEPA filter. Wear chemical splash goggles when handling this product. Have an eye wash station available.

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Nitrile, Polyvinyl chloride

Physical Data

Formula: CH3OH Molecular Weight: 32.04 Appearance: Colorless Liquid Odor: Moderate Alcohol Odor Odor Threshold: 1.2 ppm pH: No data available Melting Point: -98 C Boiling Point: 65 C Flash Point: 11 C Flammable Limits in Air: 6 - 36%

Respiratory Protection:

Respirator Type(s):

Eye Protection:

Skin Protection:

Gloves:

Section 9

Vapor Pressure: 127 mm Hg @ 25°C Evaporation Rate (BuAc=1): 2.1 Vapor Density (Air=1): 1.1 Specific Gravity: 0.791 - 0.792 @ 20°C Solubility in Water: Soluble Log Pow (calculated): -0.77 Autoignition Temperature: 464 C Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: 100%

Section 10

Reactivity Data

Section 11	Toxicity Data
Hazardous Decomposition Products:	Carbon dioxide, Carbon monoxide
Hazardous Polymerization:	Will not occur
Incompatible Materials:	sparks, open flames, or other sources of ignition. Acids, Strong oxidizing agents, Strong reducing agents, Magnesium
Reactivity:	Not generally reactive under normal conditions.
Chemical Stability:	Stable under normal conditions.
Conditions to Avoid:	Temperatures above the high flash point of this combustible material in combination with

Routes of Entry Inhalation and ingestion. Symptoms (Acute): Eye disorders, Central Nervous System Depression **Delayed Effects:** No data available

Chemical Name Methanol		CAS Number 67-56-1	Oral LD50 Oral LD50 Mouse 7300 mg/kg	Dermal LD50 Not determined	Inhalation LC50 INHALATION LC50 Rat 64000 ppm
Carcinogenicity: Chemical Name Methanol		CAS Number 67-56-1	IARC Not listed	NTP Not listed	OSHA Not listed
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	Evidence of a tera No evidence of a	mutagenic effect. atogenic effect (birth de sensitization effect. tive reproductive effects			

Section 12

Acute Toxicity

Ecological Data

Overview: This material is not expected to be harmful to the ecology. Mobility: This material is expected to have very high mobility in soil. It does not absorb to most soil types. Persistence: Biodegradation **Bioaccumulation:** Bioconcentration is not expected to occur. Degradability: Biodegrades quickly. Other Adverse Effects: No data

Chemical Name Methanol

67-56-1 96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC]

CAS Number

Section 13

Section 14

Disposal Information

Eco Toxicity

Disposal Methods:

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. U154 - Methanol

Waste Disposal Code(s):

Transport Information

Ground - DOT Proper Shipping Name: UN1230 Methanol Class 3 P.G. II

Air - IATA Proper Shipping Name: UN1230 Methanol Class 3 (div. 6.1) P.G. II

Section 15	Regulatory Information					
TSCA Status:	All components in this product are on the TSCA Inventory.					
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Methanol	67-56-1	Methanol	No	5000 lb final RQ; 2270 kg final RQ	No	No
California Prop 65:		WARNING: This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.				

Section 16

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Additional Information

Glossary

ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health