Methanol



Section 1

Product Description

Product Name:

Methanol

Recommended Use:

Science education applications

Synonyms: Distributor: Carbinol; , Methyl Alcohol; , Wood Alcohol Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215 1-800-227-1150

Chemical Information:

800-227-1150 (8am-5pm (ET) M-F)

Chemtrec:

800-424-9300 (Transportation Spill Response 24 hours)

Section 2

Hazard Identification

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

DANGER







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

Chemical Name Methanol

CAS # 67-56-1 100

Section 4

First Aid Measures

Emergency and First Aid Procedures

Inhalation:

Eyes:

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin Contact:

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse

Ingestion:

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Section 5

Firefighting Procedures

Extinguishing Media:

Use dry chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection:

Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Fire and/or Explosion Hazards:

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

lazardous Combustion Products:

explode. Carbon dioxide, Carbon monoxide

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

Prevent the spread of any spill to minimize harm to human health and the environment if safe. to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area.

Section 7

Handling and Storage

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Handling:

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-Storage:

ventilated place. Keep cool. Store locked up. Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials.

(TWA)

200 ppm TWA

Section 8

Methanol

Chemical Name

Protection Information

ACGIH (STEL)

250 ppm STEL

(TWA) 200 ppm TWA; 260 (STEL)

OSHA PEL

mg/m3 TWA

Control Parameters

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when

handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE):

Respiratory Protection:

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.

Respirator Type(s):

Eye Protection:

Wear chemical splash goggles when handling this product. Have an eye wash station

available.

Skin Protection:

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.

Gloves: Nitrile, Polyvinyl chloride

Section 9

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%

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%

ection 10

Reactivity Data

Reactivity:

Chemical Stability:

Conditions to Avoid:

Not generally reactive under normal conditions.

Stable under normal conditions.

Temperatures above the high flash point of this combustible material in combination with

sparks, open flames, or other sources of ignition.

Incompatible Materials:

Acids, Strong oxidizing agents, Strong reducing agents, Magnesium

Carbon dioxide, Carbon monoxide

Hazardous Polymerization:

Hazardous Decomposition Products:

Will not occur

Section 11

Toxicity Data

Routes of Entry

Inhalation and ingestion.

Symptoms (Acute):

Eye disorders, Central Nervous System Depression

Delayed Effects: No data

No data available

Acute Toxicity:

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

CAS Number

IARC

NTP

OSHA

Methanol 67-56-1

Not listed

Not listed

Not listed

Chronic Effects:

Mutagenicity: Teratogenicity: No evidence of a mutagenic effect.

Sensitization:

Evidence of a teratogenic effect (birth defect), No evidence of a sensitization effect, Evidence of negative reproductive effects.

Reproductive: Target Organ Effects:

Acute: Chronic:

Eyes Eyes

Section 12

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: Degradability: Bioconcentration is not expected to occur. Biodegrades quickly.

Degradability: Other Adverse Effects:

No data

Chemical Name

CAS Number

Eco Toxicity

Methanol

67-56-1

96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC]

Section 13

Disposal Information

Disposal Methods:

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

Waste Disposal Code(s):

U154 - Methanol

Section 14

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 All components in this product are on the TSCA inventory. TSCA Status: § 302 TPQ CAA 112(2) § 304 RQ CERCLA RQ CAS § 313 Name Chemical Name TQ Number 5000 lb final No No Methanol 67-56-1 Methanol No RQ; 2270 kg final RQ

California Prop 65:



WARNING: Reproductive Harm – www.P65Warnings.ca.gov

Section 16 Additional Information

Revised: 08/21/2018

Replaces: 06/15/2018

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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.

Glossary	American Conference of Governmental	NTP	National Toxicology Program
ACGIH		OSHA	Occupational Safety and Health Administration
	Industrial Hygienists	The state of the s	Occupational balety and realin 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
	13414,11,2000,000	IDLH	Immediately dangerous to life and health