



Safety Data Sheet

Methanol

Section 1. Identification

Product Identifier	Methanol		
Synonyms	Acetone Alcohol; Alcohol C1; Alcohol, Methyl; Carbinol; Colonial Spirits; Columbian Spirits; Green Wood Spirits; Manhattan Spirits; Methyl Alcohol; Methyl Hydrate; Methyl Hydroxide; Methylen; Methylol; Monohydroxymethane; Pyroligneous Spirit; Pyroxylic Spirit; Wood Alcohol; Wood Naphtha		
Manufacturer Stock Numbers	N/A		
Product Cas	67-56-1		
Recommended use	Product is intended for professional Special Effects use only.		
Uses advised against	Use of this material is at the sole risk of the purchaser.		
Manufacturer Contact			
Address	Roger George Rentals 14525 Bessemer St Van Nuys, CA, 91411 USA		
	Phone	Emergency Phone	Fax
	(818) 994-3049	(800) 535-5053 #85740	(818) 994-9432

Section 2. Hazards Identification

Classification	ACUTE TOXICITY - DERMAL - Category 3 ACUTE TOXICITY - INHALATION - Category 3 ACUTE TOXICITY - ORAL - Category 3 ASPIRATION HAZARD - Category 1 EYE DAMAGE/IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 2 HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category 3 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (Single Exposure) - Category 3
Signal Word	Danger

Pictogram



Hazard Statements

Causes serious eye damage
Causes skin irritation
Harmful to aquatic life
Highly flammable liquid and vapor
May be fatal if swallowed and enters airways
May cause respiratory irritation; or May cause drowsiness or dizziness
Toxic if inhaled
Toxic if swallowed
Toxic in contact with skin

Precautionary Statements

Response

Call a poison center or a doctor if you feel unwell.
Do NOT fight fire when fire reaches explosives.
Evacuate area.
Explosion risk in case of fire.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If on skin: Wash with plenty of soap & water.
If skin irritation occurs: Get medical advice/attention.
If swallowed: Immediately call a poison center/doctor.
Rinse mouth.
Take off immediately all contaminated clothing and wash it before reuse.

Prevention

Avoid breathing fumes, vapors, or spray.
Avoid release to the environment
Do not eat, drink or smoke when using this product.
Do not get in eyes, on skin, or on clothing.
Do not handle until all safety precautions have been read and understood.
Ground/bond container and receiving equipment.
Keep away from heat.
Keep container tightly closed.
Obtain special instructions before use.
Take precautionary measures against static discharge.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Use only outdoors or in a well-ventilated area.
Wash with soap & water thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection

Storage

Store in a well-ventilated place. Keep container tightly closed.

Disposal

N/A

Ingredients of unknown toxicity

0%

Hazards not Otherwise Classified

No Data Available

Section 3. Ingredients

CAS	Ingredient Name	Weight %
67-56-1	Methyl Alcohol	99% - 100%

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

Section 4. First-Aid Measures

General advice	First aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists, see section 8 for specific personal protective equipment.
Eye Contact	If this product enters the eyes, check for and remove any contact lenses. Open eyes while under gently running water. Use sufficient force to open eyelids. "Roll" eyes to expose more surface. MINIMUM flushign is for 15 minutes. Seek immediate medical attention.
Skin Contact	If the product contaminates the skin, immediately begin decontamination with running water. MINIMUM flushing is for 15 minutes. Remove contaminated clothing, taking care not to contaminate the eyes. If skin becomes irritated and irritation persists, medical attention may be necessary. Wash contaminated clothing before reuse, discard contaminated shoes.
Inhalation	After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, trained personnel should immediately begin artificial respiration. If the heart has stopped, trained personnel should immediately begin cardiopulmonary resuscitation (CPR). Seek immediate medical attention.
Ingestion	Do not induce vomiting. GET ATTENTION IMMEDIATELY. If person is fully conscious give 1 cup or 8 ounces of water. If medical advice is displayed and if and adult has swallowed several ounces of chemical, then give 3-4 ounces (1/3-1/2 cup) (90-120 ml) of hard liquor such as 80 proof whiskey. For children, give proportionally less liquor at a dose of 0.3 ounce (1 1/2 tsp) (8 ml) liquor for each 10 pounds of body weight, or 2 ml per kg body weight (for example: 1.2 ounces (2 1/3 tablespoon) for a 40 pound child or 36 ml for an 18 kg child).
Notes to Physician	In cases where several ounces (60-100 ml) have been ingested, consider the use of ethanol and hemodialysis in the treatment. Consult standard literature for details of treatment. If ethanol is used, a therapeutically effective blood concentration in the range of 100-150 mg/dl may be achieved by a rapid loading dose followed by a continuous intravenous infusion. Consult standard literature for details of treatment. 4-methyl pyrazole (Antizol TM) is an effective blocker of alcohol dehydrogenase and should be used in the treatment of ethylene glycol, di- or triethylene glycol, ethylene glycol butyl ether, or methanol intoxication if available. Fomepizol protocol (Brent, J. Et al, New England Journal of Medicine, Feb 8, 2001, 344:6, p. 424-9): loading dose 15 mg/kg intravenously, follow by bolus dose of 10 mg/kg every 12 hours; after 48 hours, increase bolus dose to 15 mg/kg every 12 hours. Continue fomepizol until serum methanol, EG, DEG, or TEG are undetectable. The signs and symptoms of poisoning include anion gap metabolic acidosis, CNS depression, renal tubular injury, and possible late stage cranial nerve involvement. Respiratory symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure should be observed 24-48 hours for signs of respiratory distress. Maintain adequate ventilation and oxygenation of the patient. In severe poisoning, respiratory support with mechanical ventilation and positive and expiratory pressure may be required. Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be

weighted against toxicity when considering emptying the stomach. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	Use dry powder, alcohol foam, water in large amounts, carbon dioxide. If water must be used, use as a spray only to protect fire fighters or cool containers. Use fog nozzles if water is used.
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire.
Flammable Properties	Highly flammable in presence of open flames and sparks, of heat. Vapors can travel considerable distance to a source of ignition and flash back. Hazardous combustion products may include carbon monoxide, formaldehyde, and carbon dioxide. Burns with nonluminous blue flame.
Fire fighting instructions	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use water spray to keep fire-exposed containers cool. Water runoff can cause environmental damage. Dike and collect water used to fight fire.
Precautions	Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition. Close containers may explode if exposed to extreme heat.
Prevention	NO open flames, NO sparks, & NO smoking. Use explosion-proof equipment. Isolate from oxidizers, heat, sparks, electric equipment & open flame.

Section 6. Accidental Release Measures

Personal Precautions	Wear protective equipment. Keep unnecessary and unprotected personnel away.
General Information	Vapors may ignite explosively & spread long distances. Prevent vapor buildup
Evacuate	Evacuate personnel to safe areas.
Spills/Leaks	Ventilate area of leak or spill.
Clean-up	Wear a self-contained breathing apparatus and appropriate Personal protection. (See Exposure Controls/Personal Protection section.) Stop spill at source. Dike and contain. Collect leaking liquid in sealable containers. Wash away remainder with plenty of water. Avoid runoff into storm sewers and ditches which lead to waterways.

Section 7. Handling and Storage

Handling	Isolate from oxidizers, heat, sparks, electrical equipment, & open flame. Use only with adequate ventilation. Avoid breathing of vapor or spray mist. Avoid contact with skin and eyes. Ground and bond containers when transferring material. Prevent free fall of liquid. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of.
Storage	Keep in fireproof surroundings. Keep separated from strong oxidants, strong acids. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep cool. Do not store above 49 C/120 F.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Methyl Alcohol	200 PPM S	200 PPM S	250 PPM
Personal Protective Equipment	Goggles, Gloves, Apron, Respirator			
Ventilation	Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.			
Respirators	A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z86.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.			
PPE	Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier. Wear goggles, face shield, gloves, apron & footwear impervious to material. Wash clothing before reuse.			
Engineering controls	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.			
Hygienic Practices	Wash at end of each workshift & before eating, smoking or using the toilet.			
Other clothing	Promptly remove clothing that becomes contaminated. Launder or discard contaminated clothing before reuse. Destroy contaminated leather articles.			
Additional Information	Methanol - 67-56-1 250 ppm is an EPA Hazardous Air Pollutant.			

Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Water-white
Odor	Alcohol
Odor Threshold	N/A
Solubility	Miscible in water
Partition coefficient Water/n-octanol	- 0.79
VOC%	N/A
Viscosity	0.55
Specific Gravity	0.795
Density lbs/Gal	0.794
Pounds per Cubic Foot	N/A
Flash Point	12 C / 54 F
FP Method	N/A
Ph	N/A
Melting Point	- 97.8° C
Boiling Point	64.7° C
Boiling Range	63 C / 147 F
LEL	5.5
UEL	44
Evaporation Rate	1.9
Flammability	Class I B
Decomposition Temperature	N/A
Auto-ignition Temperature	463 C / 867 F
Vapor Pressure	97 mm of HG @20 C

Section 10. Stability and Reactivity

Stability	Stable under normal temperatures and pressures.
Possibility of Hazardous Reactions	Vapors may form explosive mixture with air.
Conditions to Avoid	Keep away from heat, sparks, and flame.
Incompatibilities	Incompatible with oxidizing agents and strong acids.
Hazardous Decomposition	Burning produces noxious and toxic fumes. Carbon oxides and formaldehyde.

Section 11. Toxicological Information

Acute Toxicity	Primary irritation to skin, defatting, dermatitis. Primary irritation to eyes, redness, tearing, blurred vision. Liquid can cause eye irritation. Wash thoroughly after handling. LD50 Oral - man 1.000.0 mg/kg LD50 Skin- Rabbit 20.000.0 mg/kg
Inhalation	Anesthetic when inhaled. Acute overexposure can cause serious nervous system depression. Breathing vapor can cause irritation. Acute overexposure can cause harm to affected organs by routes of entry. Repeated exposure over TLV can cause blindness.
Ingestion	May be fatal or cause blindness if swallowed. Cannot be made non-poisonous. POISON! Can cause irreversible nervous system damage and death. Harmful or fatal if swallowed. Can cause abdominal irritation, nausea, vomiting & diarrhea.
Aggravated by Exposure	Pre-existing disorders of any target organs mentioned in this SDS can be aggravated by over-exposure by routes of entry to components of this product. Persons with these disorders should avoid this product.
Chronic Hazards	Absorption thru skin may be harmful. Studies with laboratory animals indicate this product can cause damage to fetus. Depending on degree of exposure, periodic medical examination is indicated.
Chronic Hazard	TARGET ORGANS: May cause damage to target organs, based on animal data. IRRITANCY: Irritating to contaminated tissue.

Section 12. Ecological Information

General	ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.
Plants and Animals	This product may be harmful or fatal to plant and animal life if released into the environment. Refer to Section 11 (Toxicological Information) for further data on the effects of this product's components on test animals.
Aquatic Life	The most sensitive known aquatic group to any component of this product is: Goldfish 250 ppm or mg/L (24 hour exposure). Keep out of sewers and natural water supplies.
Mobility in soil	Material is mobile on soil.
Biodegradability	This product is partially biodegradable.
Accumulation	This product does not accumulate or biomagnify in the environment.

Section 13. Disposal

Compliance	ALL DISPOSAL MUST BE IN ACCORDANCE WITH ALL FEDERAL, STATE, PROVINCIAL, AND LOCAL REGULATIONS. IF IN DOUBT, CONTACT PROPER AGENCIES. EPA CHARACTERISTIC: D001
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The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers and liners may retain some product residues. Vapor from some product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Processing, use or contamination may change the waste disposal requirements. Do not dispose of on land, in surface waters, or in storm drains. Waste should be recycled or disposed of in accordance with regulations. Large amounts should be collected for reuse or consigned to licensed hazardous waste haulers for disposal.

Section 14. Transport Information

UN Number	1230
UN Proper Shipping Name	Methanol, 3
DOT Classification	Flammable Liquid
Packing Group	PG-II
Additional Information	IF > 5018 LB / 2280 KG OF THIS PRODUCT IS IN 1 CONTAINER, IT EXCEEDS THE RQ OF METHANOL. "RQ" MUST BE PUT BEFORE THE DOT SHIPPING NAME.

Section 15. Regulatory Information

California Proposition 65	WARNING: This product contains chemical(s) known to the State of California to cause birth defects or other reproductive harm.
EPA	Methanol - 67-56-1 250 ppm is an EPA Hazardous Air Pollutant.
SARA TITLE III	Any release equal to or exceeding the RQ (5000.0 LBS) must be reported to the National Response Center (800-424-8802) and appropriate state and local regulatory agencies as described in 40 CFR 302.6 and 40 CFR 355.40 respectively. Failure to report may result in substantial civil and criminal penalties. State & local regulations may be more restrictive than federal regulations.
Risk	Highly flammable. Irritating to skin / eyes.

Section 16. Other Information

Revision Date	10/1/2015
Company Policy/Disclaimer	The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. The supplier nor any of its subsidiaries makes no representations as to its accuracy or sufficiency. This information is furnished without warranty of any kind. Conditions of use are beyond Roger George Rentals' control and therefore users must determine whether the product is suitable for their particular purposes and they assume all risk of their use, handling and disposal of the product, or from the publications or use of, or reliance upon information contained herein. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of

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