Safety Data Sheet

The Natural Choice for Flavor and Fragrance Ingredients

HEALTH	3
FLAMMABILITY	4
REACTIVITY	0

Section 1: IDENTIFICATION

Product Name:	**Methanol, Natural**
FEMA No.:	**N/A**
CAS#:	**67-56-1**
Recommended Use:	Fragrances
Manufacturer:	Aurochemicals 7 Nicoll Street Washingtonville, NY 10992- USA 845-496-6065 845-496-6248 Fax
Emergency Telephone No.:	1-800-535-5053 (International 1-352-323-3500 collect)

Section 2: HAZARD(s) IDENTIFICATION

OSHA Hazards	Flammable Liquid, Target Organ Effect, Toxic by inhalation, Toxic by ingestion, Toxic by skin absorption
Target Organs	Eyes, Kidney, Liver, Heart, Central Nervous System
GHS Classification	Flammable Liquids (Category 2) Acute toxicity, Oral (Category 3) Acute toxicity, Inhalation Category 3) Acute toxicity, Dermal (Category 3) Specific target organ toxicity-Single Exposure (Category 1)
Signal Word:	Danger
Pictogram or written description	

Hazard Statement:		
	H225	Highly flammable liquid and vapor
	H301	Toxic is swallowed
	H311	Toxic if in contact with skin
	H331	Toxic if inhaled
	H370	Causes damage to organs

Precautionary Statement		
	P210	Keep away from heat/sparks/open flames/hot surfaces-No smoking
	P260	Do not breathe dust/fume/gas/mist/vapors/spray
	P280	Wear protective gloves/protective clothing/eye and face protection
	P301+ P310	IF SWALLOWED: Immediately call a POISON CENTER or Doctor/physician
	P307+	If exposed: Call a POISON CENTER

	P311	Or Doctor/physician
HMIS Classification	Health Hazard	3
	Chronic Health Hazard*	
	Flammability	4
	Physical Hazards	0

Potential Health Effects

Inhalation	Toxic if inhaled. Causes respiratory tract irritation
Skin	Toxic if absorbed through skin. Causes skin irritation
Eyes	Causes eye irritation
Ingestion	Toxic if swallowed

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	Methanol
Common Name:	Methyl Alcohol
Synonyms:	N/A
CAS #	67-56-1
EC#	200-659-6
Index #	603-001-00-X
Registration Number	01-2119433307-44-XXXX
Formula	CH_4O
Molecular Weight	32.04 g/mol

Section 4: FIRST AID MEASURES

General Advise:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Contact with eyes:	Rinse thoroughly with plenty of water for at least 15 minutes and seek medical advice.
Contact with skin:	Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and warm water. Consult a physician
Inhalation:	Provide fresh air, Consult a physician.
Ingestion:	DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water, seek medical advice, show this container or label to attending physician.
Clothing contamination:	Remove contaminated clothing and wash before reuse.

Section 5: FIREFIGHTING MEASURES

Conditions of Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface- No smoking.
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special Firefighting Procedures:	Do not stay in danger zone without self contained breathing apparatus Prevent fire-fighting water from entering surface or ground water. Cool unopened containers with water spray from a safe distance.

Other Information	Hazardous decomposition products formed under fire conditions – Carbon oxides

Section 6: ACCIDENTIAL RELEASE MEASURES

Personal precautions	Evacuate personnel to safe areas. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas
Environmental-protected measures	Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or sewage system.
Procedures for cleaning / absorption	Take up with liquid absorbent material. Place in appropriate container and keep closed until disposal
Ventilate area	After clean up, wash spill area and ventilate the area well

Section 7: HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion proof equipment. Keep away from sources of ignition-No smoking. Take measures to prevent the buildup of electrostatic charge.
Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:			Components with workplace control parameters	
Components	CAS-No	Value	Control Parameters	Basis
Methanol	67-56-1	TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)
Remarks:	Headache Eye damage Substances for which there is a Biological Exposure Index or Indices (See BEI® section) Danger of cutaneous absorption			
		STEL	250 ppm	USA. ACGIH Threshold Limit Values (TLV)
Remarks:	Headache Eye damage Substances for which there is a Biological Exposure Index or Indices (See BEI® section) Danger of cutaneous absorption			
		TWA	200 ppm 260 mg/m3	USA. OSHA-Table Z-1 Limits for Air Contaminants-1910.1000
Remarks	Skin notion			
		STEL	250 ppm 325 mg/m3	USA. OSHA-Table Z-1 Limits for Air Contaminants-1910.1000
Remarks	Skin notion			
		TWA	200 ppm 260 mg/m3	USA. Occupational Exposure Limits (OSHA) Table Z-1 Limits for Air Contaminants
Remarks	The value in mg/m3 is approximate			
		TWA	200 ppm 260 mg/m3	USA. NIOSH Recommended Exposure Limits
Remarks	Potential for dermal absorption			
		ST	250 ppm 325 mg/m3	USA. NIOSH Recommended Exposure Limits
Remarks	Potential for dermal absorption			

Personal Protective Equipment: **These recommendations are advisory only and must be evaluated by an industrial**

	hygienist and safety officer familiar with the specific situation of anticipated use by our customers. They should not be construed as offering an approval for any specific use scenario.
Body Protection:	Complete suite protecting against chemicals, made of flame retardant antistatic material should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.
Respiratory Protection:	Where risk assessment shows air purifying respirators are appropriate use a full face respirator with multi-purpose combination respirator cartridges as a back up to engineering controls. If the respirator is the sole means of protection, use a full face air supplied respirator.
Eye Protection:	Wear appropriate tightly fitting safety goggles. Face shield (8-inch minimum) NIOSH tested and approved.
Hand Protection:	Wear chemically resistant gloves of Butyl rubber for full contact, Nitrile rubber for splash control
Industrial Hygiene:	Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Change contaminated clothing and wash before reuse. Wash hands after working with product. Application of barrier cream is recommended.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Color:	Colorless
Odor:	Pungent
Boiling Point:	~65°C
Flashpoint:	~11°C
Melting Point	-98oC
Ignition temperature	455oC
Lower Explosion Limit	6% Vol.
Upper Explosion Limit	36% Vol
Vapor Pressure:	130.3 hPa (97.7 mmHg) at 20oC (68oF) 546.6 hPa (410.0 mmHg) at 50oC (122.0oF) 169.27 hPa (126.96 mmHg) at 25oC (77.0oF)
Specific Gravity @ 25oC:	0.788-0.798
Solubility in Water:	Soluble in water and in most organic solvents
Partition coefficient: n-octanol/water	log Pow: -0.77

Section 10: STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions
Possibility of hazardous reactions	Vapors may form explosive mixture with air.
Conditions to avoid	Heat, Flames and Sparks. Extremes of temperature and direct sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products:	Fumes formed under fire conditions – carbon oxides
Further information	No data available

Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity	
LD50, Oral Human	143 mg/kg Remarks: Lungs, Thorax, or Respiration: Dyspnea. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea
LD50, Oral –Rat	1,187-2,769 mg/kg
LC50 Inhalation-Rat	128.2 mg/l 4h
LD50 Dermal Rabbit	17,100 mg/kg
Other information on acute toxicity	No data available
Skin corrosion/irritation	Skin-Rabbit: No skin irritation
Serious eye damage/eye irritation	Eye- Rabbit: No eye irritation
Respiratory or skin sensitization	Maximisation Test: guinea pig OECD Test Guideline 406 – Does not cause skin sensitisation.
Germ cell mutagenicity	Genotoxicity in vitro-Ames test – S.typhimurim-with and without metabolic activation – negative Genotoxicity in vitro-in vitro assay-fibroblast- negative Mutation in mammalian somatic cells Genotoxicity in vitro-mouse-male & female-Intraperitoneal-negative
Carcinogenicity	
IARC	No component of this product, present levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No component of this product, present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	Fertility classification not possible from current data
Teratogenicity	Damage to fetus not classifiable
Specific target organ toxicity-single exposure (GHS)	Cause damage to organs
Specific target organ toxicity-repeated exposures (GHS)	The substance or mixture is not classified as specific target organ toxicant, repeated exposure
Aspiration Hazards	No aspiration toxicity classification

Potential Health effects

Inhalation	Toxic if inhaled. Causes respiratory tract irritation
Ingestion	Toxic if swallowed
Skin	Toxic if absorbed through skin. Causes skin irritation
Eyes	Causes eye irritation
Signs and Symptoms of Exposure	Methyl alcohol may be fatal or cause blindness if swallowed Effects due to ingestion may include: Headache, Dizziness, Drowsiness, metabolic acidosis, Coma, Seizures. Symptoms may be delayed. Damage of the Liver, Kidney
Synergistic effects	No data available
RTECS:	PC1400000

Section 12: ECOLOGICAL INFORMATION

Toxicity

Toxicity to Fish:	Mortality LC50-Lepomis macrochirus (Bluegill) -15,400 mg/l -96 h NOEC-Oryzias latipes 7,900 mg/l – 200 h
Toxicity to daphnia and other aquatic invertebrates	EC50- Daphnia magna (Water Flea) >10,000 mg/l – 48 hr
Toxicity to algae	Growth inhibition EC50- Scenedesumus capricornutum (fresh water algae) 22,000 mg/l 96h
Persistence and degradability Bioaccumulative potential	Biodegradability – Aerobic Result: 72% - rapidly biodegradable Cyprinus carpio (Carp) 72 d at 20^{oC} Bioconcentration Factor (BCF) 1.0
Mobility in soil	No data available
PBT and vPvB assessment	Results: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB)
Other adverse effects	Biochemical Oxygen Demand (BOD) 600-1,120 mg/g Chemical Oxygen Demand (COD) 1,420 mg/g Additional ecological information: Avoid release into the environment

Section 13: DISPOSAL CONSIDERATIONS

Product:	According to local regulations
Packaging:	According to local regulations

Section 14: TRANSPORT INFORMATION

DOT (US) UN 1230 Class 3 Packing Group II

Proper shipping name	Methanol
Reportable Quantity (RQ)	5000 lbs

	Marine pollutant	No
	Poison Inhalation Hazard	No
IMDG		UN 1230 Class 3 (6.1) Packing Group II EMS-No.: F-E S-D
	Proper shipping name	METHANOL
	Marine pollutant	No
IATA		UN 1230 Class 3 (6.1) Packing Group II
	Proper shipping name	Methanol

Section 15: REGULATORY INFORMATION

OSHA Hazards	Flammable liquid, Target Organ Effect, Toxic by inhalation, Toxic by ingestion, Toxic by skin absorption
SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components	The following components are subject to reporting levels established by SARA Title III, Section 313: • Methanol CAS# 67-56-1 Revision Date: 07/01/2007
SARA 311/312 Hazards	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
Massachusetts Right to Know components	Methanol CAS# 67-56-1 Rev. Date: 07/01/2007
Pennsylvania Right to Know components	Methanol CAS# 67-56-1 Rev. Date: 07/01/2007
New Jersey Right to Know components	Methanol CAS# 67-56-1 Rev. Date: 07/01/2007
California Prop. 65 components	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16: OTHER INFORMATION

Aurochemicals provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Aurochemicals makes no representations or warranties, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Aurochemicals will not be responsible, nor held liable, for damages resulting from use of or reliance upon this information.

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