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Product identifier Trade name: Methanol, ACS Product code: ME1000 CAS Number: 67-56-1 Recommended use: Laboratory chemicals Industrial uses. Restrictions on use: No relevant information available. Details of the supplier of the Safety Data Sheet Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 Phone: (717)632-1291 Toll-Free: (866)632-1291 Info@aquaphoenixsci.com Emergency telephone number: Chem Tel Inc. (800) 255-5924. (North America) +1 (813)248-0585 (International) Z Hazard(s) identification Classification of the substance or mixture Film. Liq. 2. H225 Highly flammable liquid and vapor. Acute Tox. 3 H331 Toxic if swallowed. Acute Tox. 3 H331 Toxic if inhaled. Eye Irrit. 2B H320 Causes eye irritation. STOT SE 1 H370 Causes damage to the nervous system and optic nerve. • Label elements The product is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms: @W	1 Identification	
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ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International) 2 Hazard(s) identification Classification of the substance or mixture Flam. Liq. 2 H225 Highly flammable liquid and vapor. Acute Tox. 3 H301 Toxic if swallowed. Acute Tox. 3 H301 Toxic if swallowed. Acute Tox. 3 H301 Toxic if inhaled. Eye Irrit. 2B H320 Causes eye irritation. STOT SE 1 H370 Causes damage to the nervous system and optic nerve. Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms: \widetilde{O} GHS02 GHS06 GHS08 Signal word: Danger Hazard statements: H225 Highly flammable liquid and vapor. H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled. H320 Causes eye irritation.	Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 Phone: (717)632-1291 Toll-Free: (866)632-1291	the Safety Data Sheet
Classification of the substance or mixture Flam. Liq. 2 H225 Highly flammable liquid and vapor. Acute Tox. 3 H301 Toxic if swallowed. Acute Tox. 3 H311 Toxic in contact with skin. Acute Tox. 3 H311 Toxic if inhaled. Eye Irrit. 2B H320 Causes eye irritation. STOT SE 1 H370 Causes damage to the nervous system and optic nerve. Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms: Image: Comparison of the swallowed, and vapor. H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled. H320 Causes eye irritation.	ChemTel Inc. (800)255-3924 (North America	a)
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H320 Causes eye irritation.	 Signal word: Danger Hazard statements: H225 Highly flam 	
	H320 Causes eye	e irritation. (Cont'd. on page 2)

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H370	Causes damage to the nervous system and optic nerve.
· Precautionary sta	itements:
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection.
P301+P310	If swallowed: Immediately call a poison center/doctor.
P330	Rinse mouth.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a poison center/doctor if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
• Other hazards 1	here are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

[·] Chemical characterization: Substances · CAS No. Description 67-56-1 methanol

4 First-aid measures

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 Description of first aid measures After inhalation: 	
Supply fresh air.	
Seek immediate medical advice.	
If experiencing respiratory symptoms: Call a poison center/doctor.	
· After skin contact:	
Immediately remove any clothing soiled by the product.	
Immediately rinse with water.	
If skin irritation continues, consult a doctor.	
· After eye contact:	
	(Cont'd. on page 3)

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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(Cont'd. of page 2) Remove contact lenses if worn. Rinse opened eye for several minutes under running water. Then consult a doctor. · After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help. Most important symptoms and effects, both acute and delayed: Breathing difficulty Dizziness Coughing Causes eye irritation. Causes mild skin irritation. Gastric or intestinal disorders when ingested. Nausea Acidosis Blindness Disorientation Unconsciousness · Danger: Danger of impaired breathing. Toxic if swallowed, in contact with skin or if inhaled. Causes damage to the nervous system and optic nerve. Indication of any immediate medical attention and special treatment needed: Contains methanol. Consult literature for specific antidotes. Medical supervision for at least 48 hours. If necessary oxygen respiration treatment. If medical advice is needed, have product container or label at hand.

5 Fire-fighting measures

· Extinguishing media
· Suitable extinguishing agents:
Alcohol resistant foam
Gaseous extinguishing agents
Carbon dioxide
Water fog / haze
Water spray
Fire-extinguishing powder
• For safety reasons unsuitable extinguishing agents: No relevant information available.
Special hazards arising from the substance or mixture
Highly flammable liquid and vapor.
Formation of toxic gases is possible during heating or in case of fire.
Advice for firefighters
· Protective equipment:
Wear self-contained respiratory protective device.
Wear fully protective suit.
Additional information:
Eliminate all ignition sources if safe to do so.
Cool endangered receptacles with water in flooding quantities.
Use large quantities of foam as it is partially destroyed by the product.

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Keep away from ignition sources.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Isolate area and prevent access.

Environmental precautions Do not allow to enter sewers/ surface or ground water.

[•] Methods and material for containment and cleaning up

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders). Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

· Handling

Precautions for safe handling:

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Open and handle receptacle with care.

Information about protection against explosions and fires:

Highly flammable liquid and vapor.

Keep ignition sources away - Do not smoke.

Protect from heat.

Protect against electrostatic charges.

Flammable gas-air mixtures may be formed in empty containers/receptacles.

• Conditions for safe storage, including any incompatibilities • Requirements to be met by storerooms and receptacles:

Store in cool, dry conditions in well sealed receptacles.

• Information about storage in one common storage facility: Store away from foodstuffs. Store away from oxidizing agents.

• Further information about storage conditions: This product is hygroscopic.

Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

Control parameters

Components with limit values that require monitoring at the workplace: 67-56-1 methanol PEL (USA) Long-term value: 260 mg/m³, 200 ppm REL (USA) Short-term value: 325 mg/m³, 250 ppm

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	(Cont'd. of page 4
	Long-term value: 260 mg/m ³ , 200 ppm
	Skin
TLV (USA)	Short-term value: 328 mg/m ³ , 250 ppm
	Long-term value: 262 mg/m ³ , 200 ppm
	Skin; BEI
EL (Canada)	Short-term value: 250 ppm
	Long-term value: 200 ppm
	Skin
EV (Canada)	Short-term value: 325 mg/m ³ , 250 ppm
	Long-term value: 260 mg/m³, 200 ppm Skin
	Short-term value: 250 ppm Long-term value: 200 ppm
	PIEL, IBE
Ingradiants wit	h biological limit values:
67-56-1 methan	-
BEI (USA) 15 m	
	ium: urine
	e: end of shift
Para	imeter: Methanol (background, nonspecific)
The usual preca	tive and hygienic measures: utionary measures for handling chemicals should be followed.
General protec The usual preca Keep away from Immediately rem Wash hands be Do not inhale ga Avoid contact wi Engineering co Breathing equi	tive and hygienic measures: utionary measures for handling chemicals should be followed. foodstuffs, beverages and feed. hove all soiled and contaminated clothing. fore breaks and at the end of work. uses / fumes / aerosols. ith the eyes and skin. introls: Provide adequate ventilation. pment: te NIOSH respirator when ventilation is inadequate and occupational exposure limits are
General protec The usual preca Keep away from Immediately rem Wash hands be Do not inhale ga Avoid contact wi Engineering co Breathing equi Wear appropria exceeded. Protection of h	tive and hygienic measures: utionary measures for handling chemicals should be followed. foodstuffs, beverages and feed. hove all soiled and contaminated clothing. fore breaks and at the end of work. uses / fumes / aerosols. th the eyes and skin. ontrols: Provide adequate ventilation. pment: te NIOSH respirator when ventilation is inadequate and occupational exposure limits are ands: ive gloves
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General protec The usual preca Keep away from Immediately rem Wash hands bei Do not inhale ga Avoid contact wi Engineering co Breathing equi Wear appropria exceeded. Protection of h Wear appropria exceeded. Protection of h Material of glov Nitrile rubber, Ni Neoprene glove Butyl rubber, BF Laminated film g	tive and hygienic measures: utionary measures for handling chemicals should be followed. foodstuffs, beverages and feed. hove all soiled and contaminated clothing. fore breaks and at the end of work. isses / fumes / aerosols. th the eyes and skin. introls: Provide adequate ventilation. pment: te NIOSH respirator when ventilation is inadequate and occupational exposure limits ar ands: ive gloves trial has to be impermeable and resistant to the product/ the substance/ the preparation. res BR S
 General protec The usual preca Keep away from Immediately rem Wash hands bei Do not inhale ga Avoid contact wi Engineering co Breathing equi Wear appropria exceeded. Protection of h Wear appropria exceeded. Protection of h Material of glov Nitrile rubber, Ni Neoprene glove Butyl rubber, BF Laminated film g Not suitable are PVA gloves 	tive and hygienic measures: utionary measures for handling chemicals should be followed. foodstuffs, beverages and feed. hove all soiled and contaminated clothing. fore breaks and at the end of work. isses / fumes / aerosols. th the eyes and skin. ontrols: Provide adequate ventilation. pment: te NIOSH respirator when ventilation is inadequate and occupational exposure limits ar ands: ve gloves rial has to be impermeable and resistant to the product/ the substance/ the preparation. res BR s c ploves. a gloves made of the following materials:
General protec The usual procec Keep away from Immediately rem Wash hands bei Do not inhale ga Avoid contact wi Engineering co Breathing equi Wear appropria exceeded. Protection of h Wear appropria exceeded. Protection of h Material of glov Nitrile rubber, Ni Neoprene glove Butyl rubber, BF Laminated film g Not suitable are	tive and hygienic measures: utionary measures for handling chemicals should be followed. foodstuffs, beverages and feed. hove all soiled and contaminated clothing. fore breaks and at the end of work. ises / fumes / aerosols. th the eyes and skin. introls: Provide adequate ventilation. pment: te NIOSH respirator when ventilation is inadequate and occupational exposure limits ar ands: ve gloves rial has to be impermeable and resistant to the product/ the substance/ the preparation. /es BR s c gloves. a gloves made of the following materials: NR

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Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

· Body protection: Solvent resistant protective clothing

• Limitation and supervision of exposure into the environment No relevant information available.

· Risk management measures No relevant information available.

Information on basic physical and o	chemical properties
Appearance: Form:	Liquid
Form: Liquid Color: Colorless	
Odor:	Like alcohol
Odor: Odor threshold:	Not determined.
odor unesnola.	
pH-value:	Not determined.
Melting point/Melting range:	-98 °C (-144.4 °F)
Boiling point/Boiling range:	65 °C (149 °F)
Flash point:	12 °C (53.6 °F)
Flammability (solid, gaseous):	Not applicable.
Auto-ignition temperature:	>260 °C (>500 °F)
Decomposition temperature:	Not determined.
Danger of explosion:	Product is not explosive. However, formation explosive air/vapor mixtures are possible.
Explosion limits	
Lower:	6 Vol %
Upper:	31 Vol %
Oxidizing properties:	Not determined.
Vapor pressure at 20 °C (68 °F):	130 hPa (97.5 mm Hg) (97.5 mm Hg)
Density:	
Relative density:	0.79
Vapor density at 20 °C (68 °F):	1.11
Evaporation rate:	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/water) a	t 20 °C
(68 °F):	-0.77 log POW
Viscosity	
Dynamic:	Not determined.

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Kinematic: Other information Not determined. No relevant information available.

10 Stability and reactivity

· Reactivity: No relevant information available.

• Chemical stability: Stable under normal temperatures and pressures.

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

[•] Possibility of hazardous reactions

Highly flammable liquid and vapor.

Reacts violently with oxidizing agents.

Toxic fumes may be released if heated above the decomposition point.

Used empty containers may contain product gases which form explosive mixtures with air.

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized. Reacts with strong acids and alkali.

Conditions to avoid Excessive heat.

· Incompatible materials Oxidizers

[•] Hazardous decomposition products

Under fire conditions only:

Carbon monoxide and carbon dioxide

11 Toxicological information

· Information on toxicological effects

• Acute toxicity: Toxic if swallowed, in contact with skin or if inhaled.

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral	LD50	100 mg/kg
Dermal	LD50	300 mg/kg

Inhalative LC50/4h 3 mg/l

Primary irritant effect:

• On the skin: Based on available data, the classification criteria are not met.

· On the eye: Irritating effect.

• Sensitization: Based on available data, the classification criteria are not met.

· IARC (International Agency for Research on Cancer):

Substance is not listed.

• NTP (National Toxicology Program):

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration):

Substance is not listed.

· Probable route(s) of exposure:

Ingestion.

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Inhalation. Eye contact.

Skin contact.

· Germ cell mutagenicity: Based on available data, the classification criteria are not met.

· Carcinogenicity: Based on available data, the classification criteria are not met.

• Reproductive toxicity: Based on available data, the classification criteria are not met.

• STOT-single exposure: Causes damage to the nervous system and optic nerve.

• STOT-repeated exposure: Based on available data, the classification criteria are not met.

• Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

[·] Toxicity

· Aquatic toxicity No relevant information available.

· Persistence and degradability No relevant information available.

· Bioaccumulative potential: No relevant information available.

• Mobility in soil: No relevant information available.

Additional ecological information

· General notes:

Do not allow product to reach ground water, water course or sewage system.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

[•] Results of PBT and vPvB assessment

· PBT: Not applicable.

vPvB: Not applicable.

· Other adverse effects No relevant information available.

13 Disposal considerations

[•] Waste treatment methods

· Recommendation:

Incinerate in accordance with local, state and federal regulations.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

[·] Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

4 Transport information		
· UN-Number · DOT, ADR, IMDG, IATA	UN1230	
[·] UN proper shipping name		
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DOT, IATA ADR, IMDG	Methanol METHANOL	
Transport hazard class(es)		
DOT		
Class	3	
Label	3	
ADR		
Class	3 (FT1)	
Label	3+6.1	
IMDG		
Class	3	
Label	3/6.1	
ΙΑΤΑ		
Class	3	
Label	3 (6.1)	
Packing group DOT, ADR, IMDG, IATA	II	
Environmental hazards Marine pollutant:	No	
Special precautions for user	Warning: Flammable liquids	
Danger code (Kemler): EMS Number:	336 F-E,S-D	
Transport in bulk according to Anne MARPOL73/78 and the IBC Code	Not applicable.	

15 Regulatory information

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	(Cont'd. of pag
•	alth and environmental regulations/legislation specific for the substance
mixture United Stat	
· SARA	
Section 302	2 (extremely hazardous substances):
Substance i	s not listed.
· Section 35	5 (extremely hazardous substances):
Substance i	s not listed.
· Section 313	3 (Specific toxic chemical listings):
Substance i	s listed.
· TSCA (Toxi	c Substances Control Act)
Substance i	s listed.
· Propositior	n 65 (California)
· Chemicals	known to cause cancer:
Substance i	s not listed.
· Chemicals	known to cause developmental toxicity for females:
Substance i	s not listed.
· Chemicals	known to cause developmental toxicity for males:
Substance i	s not listed.
· Chemicals	known to cause developmental toxicity:
Substance i	s listed.
· EPA (Envir	onmental Protection Agency):
Substance i	s not listed.
· IARC (Inter	national Agency for Research on Cancer):
Substance i	s not listed.
[.] Canadian D	omestic Substances List (DSL) (Substances not listed.):
Substance i	s listed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms: ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistant, Bio-accumulable, Toxic vPvB: very Persistent and very Bioaccumulative OSHA: Occupational Safety & Health Administration Flam. Liq. 2: Flammable liquids – Category 2 Acute Tox. 3: Acute toxicity – Category 3

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(Cont'd. of page 10) Eye Irrit. 2B: Serious eye damage/eye irritation - Category 2B STOT SE 1: Specific target organ toxicity (single exposure) – Category 1 · Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com