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Safety Data Sheet

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

Revision: December 11, 2020

1 Identification

· Product identifier

· Trade name: Methanol (Methyl Alcohol)

· Product code: ME1000-Q

· CAS Number:

67-56-1

· Recommended use and restriction on use

· 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 USA

Tel +1 (717)632-1291

Toll-Free: (866)632-1291

info@aquaphoenixsci.com

· Distributor:

AquaPhoenix Scientific

860 Gitts Run Road,

Hanover, PA 17331

(717) 632-1291

· Emergency telephone number:

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 H311 Toxic in contact with skin.

Acute Tox. 3 H331 Toxic if inhaled.

Eye Irrit. 2B H320 Causes eye irritation.

STOT SE 1 H370 Causes damage to the central 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:







GHS02 GHS06 GHS08

· Signal word: Danger

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· 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.

H370 Causes damage to the central nervous system and optic nerve.

· Precautionary statements:

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 There 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

- 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:

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Immediately remove any clothing soiled by the product.

Immediately rinse with water.

If skin irritation continues, consult a doctor.

· After eye contact:

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 eve 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 central nervous system and optic nerve.

Indication of any immediate medical attention and special treatment needed:

Contains ethanediol. 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:

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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.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Isolate area and prevent access.

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.

- 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

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· Components v	with limit values that require monitoring at the workplace:	1
67-56-1 metha	nol	1
PEL (USA)	Long-term value: 260 mg/m³, 200 ppm	1
REL (USA)	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin	
TLV (USA)	Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm Skin; BEI	
EL (Canada)	Short-term value: 250 ppm Long-term value: 200 ppm Skin	
EV (Canada)	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin	

· Ingredients with biological limit values:

LMPE (Mexico) | Short-term value: 250 ppm

PIEL. IBE

67-56-1 methanol

BEI (USA) 15 mg/L

Medium: urine Time: end of shift

Parameter: Methanol (background, nonspecific)

· Exposure controls

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Long-term value: 200 ppm

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

- · Engineering controls: Provide adequate ventilation.
- · Breathing equipment:

Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Material of gloves

Nitrile rubber, NBR

Neoprene gloves

Butyl rubber, BR

Laminated film gloves.

· Not suitable are gloves made of the following materials:

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PVA gloves
Natural rubber, NR
• Eye protection:



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.

Physical and chemical propertie	!S
Information on basic physical and	chemical properties
Appearance:	
Form:	Liquid
Color:	Colorless
· Odor: · Odor threshold:	Like alcohol
Odor threshold:	Not determined.
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.

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· Partition coefficient (n-octanol/water) at 20 °C

(68 °F): -0.77 log POW

· Viscosity

Dynamic: Not determined. **Kinematic:** Not determined.

• Other information 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 	on	cati	sifi	clas	for	relevant	that are	values	/I C50	• I D
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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 eve: 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.

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

Substance is not listed.

Probable route(s) of exposure:

Ingestion.

Inhalation.

Eve 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 central 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.

· 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.

UN1230

- Uncleaned packagings
- · **Recommendation:** Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

- · UN-Number
- · DOT, ADR/RID/ADN, IMDG, IATA

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	(Cont'd. of page
· UN proper shipping name · DOT, IATA · ADR/RID/ADN, IMDG	Methanol METHANOL
· Transport hazard class(es)	
· DOT	
· Class	3
· Label	
· ADR/RID/ADN	
· Class	3 (FT1)
· Label 	3+6.1
· IMDG	
· Class	3
· Label	3/6.1
·IATA	
Class	3
· Label	3 (6.1)
· Packing group · DOT, ADR/RID/ADN, IMDG, IATA	II
· Environmental hazards · Marine pollutant:	No
 Special precautions for user Hazard identification number (Kemler code): EMS Number: 	Warning: Flammable liquids 336 F-E,S-D
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	of Not applicable.