



SAFETY DATA SHEET

Methanol

Section 1: Chemical and Company Identification

Product Name: Methanol

Recommended use: Laboratory Chemicals

Company Identification: Beacon Analytical Systems, Inc.
82 Industrial Park Road
Saco, ME 04072

Date: 3/23/2015

Emergency Number: 207-571-4302

Revision date: 5/2/2018

Section 2: Hazards Identification

GHS Classification

Signal Word: Danger



Flammable Liquid 2 H225 Highly flammable liquid and vapor.



Acute Toxicity 3 H331 Toxic if inhaled. H301 Toxic if Swallowed. H311 Toxic in contact with skin.



STOT SE 1 H370 Causes damage to organs.

Precautionary statements:

Prevention:

- P264- Wash face, hands, and any exposed skin thoroughly after handling.
- P270- Do not eat, drink, or smoke when using this product.
- P280- Wear protective gloves/protective clothing/eye protection/face protection.
- P271- Use only outdoors or in a well ventilated area.
- P260- Do not breathe dust/fumes/gas/mist/vapors/spray
- 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.
- P235- Keep cool.

Response:

General

P308+P311- IF EXPOSED: Call a POISON CENTER or doctor/physician

Inhalation

P304+P340+P311- IF INHALED: Remove victim to fresh air and keep in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.

Skin

P303+P361+P353+P364+P312- IF ON SKIN (or hair): Immediately remove all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Call a POISON CENTER or doctor/physician if you feel unwell.

Ingestion

P301+P310+P330- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse Mouth.

Fire

P370+P378- In case of fire: Use CO₂, dry chemical, or foam for extinction.

Storage:

- P405- Store locked up.
- P403+P233- Store in a well-ventilated place. Keep container tightly closed.

Disposal:

P501- Dispose of contents/container to an approved waste disposal plant.

Other classification Systems:

NFPA ratings (scale 0-4):

- Health= 1
- Fire= 3
- Reactivity= 0

HMIS ratings (scale 0-4)

- Health= 2
- Fire= 3
- Reactivity= 0

Other hazards:

- PBT: N/A
- vPvB: N/A

Section 3: Composition/information on ingredients

Chemical characterization: Substance

<u>CAS#</u>	<u>Chemical Name</u>	<u>%</u>	<u>EC#</u>
67-56-1	Methanol	100	200-659-6

Section 4: First Aid Measures

- **General information:**
Immediately remove any clothing soiled by the product.
Remove breathing apparatus only after contaminated clothing has been completely removed.
In case of irregular breathing or respiratory arrest provide artificial respiration.
- **If inhaled:**
Supply fresh air or oxygen and seek medical attention.
- **In case of skin contact:**
Immediately wash skin with soap and copious amounts of water and rinse thoroughly.
- **In case of eye contact:**
Flush eyes with copious amounts of water for at least fifteen minutes. Assure adequate flushing by separating eyelids with fingers. Seek medical attention.
- **If ingested:**
Do not induce vomiting. Seek immediate medical attention.
- **Most important symptoms/effects, acute and delayed:**
Information not available
- **Indication of immediate medical attention and special treatment needed:**
Information not available.

Section 5: Fire Fighting Measures

- **Suitable extinguishing media:**
CO₂, extinguishing powder or water spray. Fight large fires with water spray or alcohol resistant foam.
- **Special hazards arising from substance or mixture:**
N/A
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

Section 6: Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Dilute with plenty of water.
Do not allow product to reach sewage system or any water course.
Prevent seepage into sewage system, workpits, and cellars.
Inform appropriate authorities of any contact with water course and/or sewage system.
- **Methods and materials for containment and cleaning up:**
Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust, etc.).
Dispose of contaminated materials as waste according to item 13 (Disposal considerations).
Ensure adequate ventilation.

Section 7: Handling and Storage

- **Precautions for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
Keep ignition source away- do not smoke.
Protect against electrostatic charges.
Keep respiratory protective devices available.
- **Conditions for safe storage , including any incompatibilities:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
- **Information about storage in one common storage facility:**
Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

Section 8: Exposure Controls/Personal Protection

- **Control Parameters**
Components with limit values that require monitoring at the workplace:
67-56-1 Methanol

PEL 260 mg/m³, 200 ppm

REL Short-term value: 325 mg/m³, 250 ppm
Long-term value: 260 mg/m³, 200 ppm

TLV Short-term value: 328 mg/m³, 250 ppm
Long-term value: 262 mg/m³, 200 ppm
Skin; BEI

Components with biological limit values:
67-56-1 Methanol
BEI 15 mg/L
Medium: urine
Time: end of shift
Parameter: Methanol (background, nonspecific)
Additional information: The lists that were valid during the creation were used as basis.
- **Appropriate engineering controls:** Information not available.
- **Individual protection measures:**
General protective and hygienic measures:
Keep away from food, beverages, and feed.
Immediately remove contaminated clothing.
Wash hands before breaks and at end of shift.
Store protective clothing in a separate, designated area.
Avoid contact with eyes and skin.
Breathing equipment:
In case of brief exposure or low pollution use respiratory filter device.
In case of intensive or long term exposure use respiratory device independent of circulating air.
Eye Protection:
Protective eyeglasses or chemical safety goggles should be worn when handling.
Skin and body Protection:
Wear appropriate gloves and clothing to prevent skin exposure.

Section 9: Physical and Chemical Properties

- **Physical state:** Liquid
- **Color:** Colorless
- **Odor:** Alcohol-like
- **Odor threshold:** No information available
- **pH:** No information available
- **Melting point/range:** -98 °C/ -144.4 °F
- **Boiling point/range:** 64.7 °C/ 148.5 °F
- **Flash point:** 12 °C/ 53.6°F
- **Evaporation rate:** 5.2 (ether = 1)
- **Flammability (solid, gaseous):** N/A
- **Upper/ Lower explosive limits:**
Lower: 5.5 % Vol
Upper: 44.0 % Vol
- **Vapor pressure (at 20 °C):** 128 hPa
- **Vapor density:** 1.11 (air = 1)
- **Relative density:** Information not available
- **Solubility(ies):**
Water: Fully miscible
- **Partition coefficient(n-octanol/water):** Information not available
- **Autoignition temperature:** 455 °C (851°F)
- **Decomposition temperature:** Information not available

Section 10: Stability and Reactivity

- **Chemical Stability:**
Stable under normal conditions.
- **Possibility of hazardous reactions:**
No hazardous reactions known.
- **Conditions to avoid:**
Keep away from open flame, hot surfaces, heat sources, and sources of ignition.
- **Incompatible materials:**
Strong oxidizing agents
Strong acids
Acid anhydrides
Acid chlorides
Strong bases
Metals
Peroxides
- **Hazardous decomposition products:**
Carbon monoxide
Formaldehyde

Section 11: Toxicological Information

To the best of our knowledge, the chemical, physical, and toxicological properties of this product have not been thoroughly investigated. The following refers to the hazardous ingredient(s) of the product. Other harmful effects cannot be excluded.

- **Acute toxicity**
LD/LC 50 values:
67-56-1 Methanol
Oral LD50: 6200 mg/kg (Rat)

Dermal LD50: 15800 mg/kg (Rabbit)
Inhalation LC50: 22500 ppm (Rat) 8 h

- **Chronic Toxicity**

Irritation:

Irritating to eyes and skin.

Sensitization:

No known sensitization effects.

Carcinogenicity:

No carcinogenic chemicals present.

Mutagenic effects:

Mutagenic effects have occurred in test animals.

Reproductive effects:

Reproductive effects seen in test animals.

Developmental effects:

Developmental effects seen in experimental animals. Substance is listed on California Proposition 65 as a developmental hazard.

Teratogenicity:

Teratogenic effects seen in experimental animals.

Section 12: Ecological Information

- **Aquatic toxicity:**
Information not available
- **Terrestrial toxicity:**
Information not available
- **Persistence and degradability:**
Readily biodegradable
- **Bioaccumulative potential:**
Information not available
- **Mobility in soil:**
Information not available
- **Other adverse effects:**
Information not available

Section 13: Disposal Considerations

- Should not be released into the environment.
- Dispose in accordance with all federal, state and local environmental regulations.

Section 14: Transport Information

UN-Number

DOT, ADR, ADN, IMDG, IATA:

Void

UN proper shipping name

DOT, ADR, ADN, IMDG, IATA:

Void

Transport hazard class

DOT, ADR, ADN, IMDG, IATA:

Void

Packing group

DOT, ADR, ADN, IMDG, IATA:

Void

Environmental hazards

Marine Pollutant:

No

Special precautions for user:

N/A

Section 15: Regulatory Information

N/A

Section 16: Other Information

For research use only, not for human or veterinary clinical use.

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