

Safety Data Sheet

according to 29 CFR 1910.1200(g)

Methanol > 99.8 % for analysis

Revision date: 05/22/2023

Product code: 07010TEST

Page 1 of 10

1. Identification

Product identifier

Methanol > 99.8 % for analysis

CAS No: 67-56-1

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

Do not use for private purposes (household).

Details of the supplier of the safety data sheet

Company name: Chem Service, Inc.
an analytichem company
Street: 660 Tower Lane
Place: USA-PA 19381-0599 West Chester, United States
Telephone: 800-452-9994 / 610-692-3026
E-mail: info@chemservice.com
Contact person: SDS service department
E-mail: SDS@analytchem.com
Internet: www.chemservice.com
Responsible Department: SDS service department

Emergency phone number: Chemtrec US 800-424-9300 / Chemtrec outside US +1 703-527-3887

Further Information

No data available

2. Hazard(s) identification

Classification of the chemical

29 CFR Part 1910.1200

Flammable liquids: Flam. Liq. 2
Acute toxicity: Acute Tox. 3 (inhalation)
Acute toxicity: Acute Tox. 3 (dermal)
Acute toxicity: Acute Tox. 3 (oral)
Specific target organ toxicity single exposure: STOT SE 1

Label elements

Hazards not otherwise classified

No data available

3. Composition/information on ingredients

Substances

Sum formula: CH3OH
Molecular weight: 32,04 g/mol

Relevant ingredients

CAS No	Components	Quantity
67-56-1	methanol	100 %

Safety Data Sheet

according to 29 CFR 1910.1200(g)

Methanol > 99.8 % for analysis

Revision date: 05/22/2023

Product code: 07010TEST

Page 2 of 10

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

4. First-aid measures

Description of first aid measures

General information

First aider: Pay attention to self-protection!

After inhalation

Provide fresh air.

If breathing is irregular or stopped, administer artificial respiration.

Call a physician immediately.

After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

Call a physician immediately.

After contact with eyes

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water.

Remove contact lenses, if present and easy to do. Continue rinsing.

Consult an ophthalmologist.

After ingestion

Provide fresh air.

Call a physician immediately.

Notes for the doctor : Methanol

Most important symptoms and effects, both acute and delayed

Irritant, Dizziness

Dizziness, Anaesthetic state

Agitation, Spasms

Inebriation, Vomiting

Headache, Impairment of vision

Repeated exposure may cause skin dryness or cracking.

Indication of any immediate medical attention and special treatment needed

No data available

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Water spray jet, Carbon dioxide (CO₂), Foam, Extinguishing powder.

Unsuitable extinguishing media

no restriction

Specific hazards arising from the chemical

Combustible liquids

Highly flammable.

Hazardous combustion products

In case of fire may be liberated: Carbon dioxide, Carbon monoxide

Vapors are heavier than air, spread along floors and form explosive mixtures with air.

Beware of reignition.

Heating causes rise in pressure with risk of bursting.

Special protective equipment and precautions for fire-fighters

In case of fire: Wear self-contained breathing apparatus.

Safety Data Sheet

according to 29 CFR 1910.1200(g)

Methanol > 99.8 % for analysis

Revision date: 05/22/2023

Product code: 07010TEST

Page 3 of 10

Wear full chemical protective clothing.
In case of fire and/or explosion do not breathe fumes.

Additional information

Use water spray/stream to protect personnel and to cool endangered containers.
Move undamaged containers from immediate hazard area if it can be done safely.
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

General advice

Keep away from sources of ignition - No smoking.
This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).
Take precautionary measures against static discharge.

For non-emergency personnel

Provide adequate ventilation.
Use personal protection equipment.
Avoid contact with skin, eyes and clothes.
Remove persons to safety.
Emergency procedures
Do not breathe dust/fume/gas/mist/vapors/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment (PPE): see section 8

Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion
Do not allow to enter into surface water or drains.
The vapors are heavier than air and can accumulate in high concentrations on the ground, in cavities, channels and cellars.
Danger of explosion

Methods and material for containment and cleaning up

For containment

Cover drains.
Prevent spread over a wide area (e.g. by containment or oil barriers).
Collect in closed and suitable containers for disposal.
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wear respiratory protection when in the presence of vapor, dust, and aerosols.

Reference to other sections

Safe handling: see section 7
Personal protection equipment (PPE): see section 8
Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Avoid exposure - obtain special instructions before use.

Safety Data Sheet

according to 29 CFR 1910.1200(g)

Methanol > 99.8 % for analysis

Revision date: 05/22/2023

Product code: 07010TEST

Page 4 of 10

If handled uncovered, arrangements with local exhaust ventilation have to be used.
Read label before use. Handle and open container with care.
When using do not eat, drink, smoke, sniff. Keep container tightly closed.
Use personal protection equipment. Use extractor hood (laboratory).
Do not breathe gas/fume/vapor/spray. Provide adequate ventilation.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.
Vapors may form explosive mixtures with air.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.
Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of the protective agents should be clarified with their suppliers.

Further information on handling

Take off immediately all contaminated clothing and wash it before reuse.
Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in a cool, well-ventilated place.
Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.
national regulations

Further information on storage conditions

Keep cool. Protect from sunlight.
storage temperature: +5°C - +30°C

8. Exposure controls/personal protection

Control parameters

Exposure limits

CAS No	Substance	ppm	mg/m ³	f/cc	Category	Origin
67-56-1	Methyl alcohol	200	260		TWA (8 h)	PEL
		200	260		TWA (8 h)	REL
		250	325		STEL (15 min)	REL

Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.
If handled uncovered, arrangements with local exhaust ventilation have to be used.
Do not breathe gas/fume/vapor/spray.

Individual protection measures, such as personal protective equipment

Eye/face protection

goggles

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four

Safety Data Sheet

according to 29 CFR 1910.1200(g)

Methanol > 99.8 % for analysis

Revision date: 05/22/2023

Product code: 07010TEST

Page 5 of 10

control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact

Trade name/designation: KCL 898 Butoject®

Recommended material: Butyl caoutchouc (butyl rubber) 0,7 mm

Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation: KCL 890 Vitoject®

Recommended material: FKM (fluoro rubber) 0,7 mm

Wearing time with occasional contact (splashes): > 120 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet (>, <) supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing

Take off immediately all contaminated clothing and wash it before reuse.

Wear fire resistant or flame retardant clothing.

Wash hands and face before breaks and after work and take a shower if necessary.

Draw up and observe skin protection programme.

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

Filtering device with filter or ventilator filtering device of type: AX

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls

Do not allow to enter into surface water or drains.

Due to danger of explosion, prevent leakage of vapors into cellars, flues and ditches.

Danger of explosion

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	Liquid
Color:	colorless
Odor:	characteristic
Odour threshold:	No data available
Melting point/freezing point:	-98 °C
Boiling point or initial boiling point and boiling range:	64,7 °C
Flammability:	not applicable
Lower explosion limits:	not applicable
Upper explosion limits:	5,5 vol. %
Flash point:	44 vol. %
	9,7 °C

Safety Data Sheet

according to 29 CFR 1910.1200(g)

Methanol > 99.8 % for analysis

Revision date: 05/22/2023

Product code: 07010TEST

Page 6 of 10

Auto-ignition temperature:	420 °C
Decomposition temperature:	not determined
pH-Value:	No data available
Viscosity / kinematic:	No data available
Solubility in other solvents not determined	
Dissolution rate:	No data available
Partition coefficient n-octanol/water:	log Pow: -0,77
Dispersion stability:	No data available
Vapor pressure: (at 20 °C)	128 hPa
Vapor pressure: (at 50 °C)	546,6 hPa
Density:	0,792 g/cm ³
Bulk density:	No data available
Relative vapour density:	No data available
Particle characteristics:	No data available

Other information

Information with regard to physical hazard classes

Explosive properties

Vapors may form explosive mixtures with air.

Sustaining combustion:

Sustaining combustion

Self-ignition temperature

Solid:

not applicable

Gas:

not applicable

Oxidizing properties

not determined

Other safety characteristics

Evaporation rate:

No data available

Solvent separation test:

No data available

Solvent content:

100%

Solid content:

No data available

Sublimation point:

No data available

Softening point:

No data available

Pour point:

No data available

No data available:

Viscosity / dynamic:

0,597 mPa·s

(at 20 °C)

Flow time:

No data available

Further Information

No data available

10. Stability and reactivity

Reactivity

Highly flammable.

Vapors may form explosive mixtures with air.

Chemical stability

The product is stable under storage at normal ambient temperatures.

Possibility of hazardous reactions

Oxidising agent, Nitrogen oxides (NOx), Potassium chlorate, peroxides, for example hydrogen peroxide, Nitric acid, sulphuric acid, , Acid halogen, Acetic anhydride, Maleic anhydride, Reducing agent, Acid, Bromine,

Safety Data Sheet

according to 29 CFR 1910.1200(g)

Methanol > 99.8 % for analysis

Revision date: 05/22/2023

Product code: 07010TEST

Page 7 of 10

Chlorine, Chloroform, Fluorine, Alkali metals, Alkaline earth metal;

Conditions to avoid

Vapors may form explosive mixtures with air.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible materials

Plastic articles

Zinc

Hazardous decomposition products

SECTION 5: Fire fighting measures

Further information

No data available

11. Toxicological information

Route(s) of Entry

No data available

Information on toxicological effects

Toxicokinetics, metabolism and distribution

Avoid exposure - obtain special instructions before use.

Acute toxicity

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

Irritation to respiratory tract

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
67-56-1	methanol				
	oral	LD50 mg/kg 6000	Monkey	Amer J Ophthalmol 40: 76-83 (cited in DG)	Determination of the acute toxicity of t
	dermal	ATE mg/kg 300			
	inhalation (4 h) vapour	LC50 mg/l 128,2	Rat	Study report (1980)	Study performed according to internal co
	inhalation dust/mist	ATE 0,5 mg/l			

Irritation and corrosivity

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

Has degreasing effect on the skin.

Sensitizing effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

Specific target organ toxicity (STOT) - single exposure

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

eyes, central nervous system

Specific target organ toxicity (STOT) - repeated exposure

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

Carcinogenicity (OSHA): Not listed.

Carcinogenicity (IARC): Not listed.

Carcinogenicity (NTP): Not listed.

Safety Data Sheet

according to 29 CFR 1910.1200(g)

Methanol > 99.8 % for analysis

Revision date: 05/22/2023

Product code: 07010TEST

Page 8 of 10

Aspiration hazard

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

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available

Practical experience

No data available

Information on other hazards

Endocrine disrupting properties

No data available

Other information

Irritation to respiratory tract
Repeated exposure may cause skin dryness or cracking.
Causes damage to organs.
Organs affected:
Liver and kidney damage
eyes
heart

Further information

Irritant, Dizziness, Dizziness, Anaesthetic state, Agitation, Spasms, Inebriation, Vomiting, Headache,
Impairment of vision
Repeated exposure may cause skin dryness or cracking.

12. Ecological information

Persistence and degradability

99 %; 30 d
OECD 301D
Readily biodegradable (according to OECD criteria).

Bioaccumulative potential

No indication of bioaccumulation potential.

Mobility in soil

The product has not been tested.

Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

Other adverse effects

No data available

Further information

Do not allow to enter into surface water or drains.
Avoid release to the environment.

13. Disposal considerations

Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.
Send to a physico-chemical treatment facility under observation of official regulations.
Do not allow to enter into surface water or drains.

Contaminated packaging

This material and its container must be disposed of as hazardous waste.

Safety Data Sheet

according to 29 CFR 1910.1200(g)

Methanol > 99.8 % for analysis

Revision date: 05/22/2023

Product code: 07010TEST

Page 9 of 10

Handle contaminated packages in the same way as the substance itself.
The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

14. Transport information

U.S. DOT 49 CFR 172.101

UN number or ID number: UN 1230
Proper shipping name: METHANOL
Transport hazard class(es): 3
Packing group: II
Hazard label: 3

Marine transport (IMDG)

UN number or ID number: UN 1230
UN proper shipping name: METHANOL
Transport hazard class(es): 3
Packing group: II
Hazard label: 3+6.1
Special Provisions: 279
Limited quantity: 1 L
Excepted quantity: E2
EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

UN number or ID number: UN 1230
UN proper shipping name: METHANOL
Transport hazard class(es): 3
Packing group: II
Hazard label: 3+6.1
Special Provisions: A113
Limited quantity Passenger: 1 L
Passenger LQ: Y341
Excepted quantity: E2
IATA-packing instructions - Passenger: 352
IATA-max. quantity - Passenger: 1 L
IATA-packing instructions - Cargo: 364
IATA-max. quantity - Cargo: 60 L

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

Special precautions for user

Warning: Combustible liquid. Toxic.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

15. Regulatory information

U.S. Regulations

National regulatory information

SARA Section 304 CERCLA:
Methanol (67-56-1): Reportable quantity = 5,000 (2270) lbs. (kg)
SARA Section 311/312 Hazards:
Methanol (67-56-1): Fire hazard, Immediate (acute) health hazard
SARA Section 313 Toxic release inventory:
Methanol (67-56-1): De minimis limit = 1.0 %, Reportable threshold = Standard

Safety Data Sheet

according to 29 CFR 1910.1200(g)

Methanol > 99.8 % for analysis

Revision date: 05/22/2023

Product code: 07010TEST

Page 10 of 10

Clean Air Act Section 112(b):
Methanol (67-56-1)

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

WARNING: This product can expose you to chemicals including Methanol (developmental), which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

16. Other information

Revision date: 05/22/2023

Revision No:

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Other data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.