

Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 28.09.2022 Version 2

TEKKİM

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Catalog No. TK.911022.00000
Product Name Methanol
Cas no 67-56-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use as a laboratory reagent.

1.2.2. Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Name TEKKİM KİMYA SAN. TİC. LTD. ŞTİ.
Street ORGANİZE SAN. BÖL. MAVİ CAD. 8. SOK. NO :1 NİLÜFER / BURSA
Telephone 0224 243 21 71
E-mail erhan@tekkim.com.tr
Company Representative Erhan DİLER

1.4 Emergency Telephone Number +90 506 990 36 86

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Flammable liquids, Category 2
Acute toxicity, Oral, Category 3
Acute toxicity, By inhalation, Category 3
Acute toxicity, Dermal, Category 3
Specific Target Organ Toxicity – Single exposure, Category 1, Eyes

For the full text of the H and EUH statements referred to in this section, see section 16.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictograms



Signal word (SEA)

DANGER


Hazard Statements (SEA)

H225 Highly flammable liquid and vapour.
H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled.
H370 Causes damage to organs. (eyes)

Precautionary Statements (SEA)



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Prevention

- P210 Keep away from heat/sparks/open flames/hot surfaces. -No smoking.
P233 Keep container tightly closed.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Intervention

- P301+P310 IF SWALLOWED: Call a NATIONAL POISON CENTER or doctor/physician.
P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse your skin with water/shower.
P304+P340 IF INHALED: Move victim to fresh air and keep in a position comfortable for breathing.

SECTION 3: Composition/information on ingredients

Classification according to Regulation (EC) No. 1272/2008 (CLP)

3.1 Maddeler

EC No	200-659-6
Molar mass	32.04 g/mol
Cas No	67-56-1
Concentration	(<= 100 %)

SECTION 4: First aid measures

4.1 Description of first aid measures

<i>General information</i>	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
<i>Following inhalation</i>	Remove to fresh air. Call a doctor. If breathing stops: apply mechanical respiration immediately, with oxygen if necessary.
<i>Following skin contact</i>	Wash with plenty of water. Take off contaminated clothing.
<i>Following eye contact</i>	In case of contact with eyes, rinse immediately with plenty of water and consult an ophthalmologist.
<i>Following ingestion</i>	Have the patient drink ethanol. (40% alcohol 1 glass) and call a doctor immediately. If medical assistance is not available within 1 hour, make the patient vomit and drink ethanol again. (0.3 ml 40% ethanol /body weight/hour.)

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water. Foam. Dry extinguishing powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media

There is no restriction for this item.

5.2 Special hazards arising from the substance or mixture

Flammable. Heavy-than-air vapors may form on the floor surface. May form explosive mixture with air at intense temperatures. In case of fire, dangerous flammable gases or vapors may develop. There may be glare. Be careful.

5.3 Advice for firefighters

Special protective equipment for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. Keep a safe distance to cut off contact with skin and wear suitable protective clothing.

5.4 Additional information

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Don't breathe vapours, aerosols. Avoid substance contact. Keep away from head and source of ignition. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert..

6.2 Environmental precautions

Do not discharge into sewer. Risk of explosion.

6.3 Methods and material for containment and cleaning up

Close drainage channels. Take up with liquid-absorbent material. Clean the affected area.

6.4 Reference to other sections

Disposal: see section 13.

6.5 Additional information

Clear spills immediately.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Advices on safe handling

Observe label precautions. Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Advices on general occupational hygiene

Change contaminated clothing. Wash hands after working with substance. It is recommended to use a skin protection cream.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and anything that can cause ignition.

7.3 Specific end uses

There are no other specific uses other than those mentioned in section 1.2.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Methanol		(67-56-1)
TR MAK	Acceptable maximum concentration (MAK)	200 mbp 260 mg/m ³
TR OEL	8 hour specified for reference time measured or calculated time weighted average (TWA):	200 mbp 260 mg/m ³

8.2 Exposure controls

Appropriate engineering controls

More attention should be paid to technical measures against the use of personal protective equipment.

Personal protection equipment


Eye/face protection

Safety glasses

Hand protection



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Hand protection

Full contact

Glove material : Butyl rubber
Glove thickness :0,70 mm
Break through time : >480 minute

Splash contact

Glove material : Viton (R)
Glove thickness :0,70 mm
Break through time : >120 minute

The protective gloves to be used must comply with the specifications of directive 89/686/EEC and the related standart EN374.

Other skin protection

Flame retardant antistatic protective chlothing.

Respiratory protection

Buharlar/aerosoller atılmasında gerekir.
Tavsiye edilen Filtre tipi: AX Filtresi (EN 371)

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Colorless
Odour	Characteristic
Odour threshold	10 ppm
pH value	No information.
Melting point/freezing point	-97,8 °C - (ECHA)
Freezing point	No information.
Initial boiling point and boiling range	64,7 °C 1.013 hPa - (ECHA)
Flash point	9,7 °C
Evaporation rate	6,3
Flammability (solid, gas)	455 °C 1,013 hPa
Upper/lower flammability or explosive limits	5,5 %(V)
Upper/lower flammability or explosive limits	44 %(V)
Vapour pressure	169,27 hPa 25 °C
Vapour density	1,11
Density	0,79 g/cm3 20 °C
Relative density	No information.
Water solubility (g/l)	Soluble.
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	log Pow: -0,77 (experimental) - No bioaccumulation expected.
Auto-ignition temperature	No information.
Decomposition temperature	It can be distilled without decomposition at normal pressure.

Viscosity

Kinematic viscosity	0,54 - 0.59 mm2/s 20 °C
Dynamic viscosity	0,54 - 0.59 mPa.s 25 °C
Explosive properties	Not classified as explosive.
Oxidising properties	none

SECTION 10: Stability and Reactivity

10.1 Reactivity

Vapors may form explosive mixture with air.



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10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

Oxidizing agents, perchloric acid, perchlorates, salts of oxyhalogenic acids, chromium (VI) oxide, halogen oxides, nitrogen oxides, nonmetal oxides, chromosulfuric acid, chlorates, hydrides, zinc diethyl, halogens, powdered magnesium, hydrogen peroxide, Nitric acid, Sulfuric acid There is a risk of explosion with permanganic acid, sodium hypochlorite.

It gives exothermic reaction with acid halides, acid anhydrides, reducing compounds, acids, bromine, chlorine, chloroform, magnesium, tetrachloromethane.

10.4 Conditions to avoid

In case of warming.

10.5 Incompatible materials

Various plastics, magnesium, zinc alloys.

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

Acute toxicity estimate: 100.1 mg/kg

Expert judgment

Symptoms: Nausea, vomiting.

Acute inhalation toxicity

Estimated acute toxicity Inhalation - 4 h - 3.1 mg/l

(Expert decision)

Symptoms: Irritant symptoms in the respiratory tract.

Acute dermal toxicity

Acute toxicity estimate Dermal - 300.1 mg/kg

(Expert decision)

Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation

Notes: (ECHA)

Drying effect resulting in rough and cracked skin.

Specific Target Organ Toxicity – Single exposure

Causes damage to organs. - Eyes, Central nervous system

11.2 Additional information

Systemic effects:

Symptoms may be delayed, such as acidosis, drop in blood pressure, agitation, spasms, intoxication, dizziness, drowsiness, headache, visual disturbances, blindness, narcosis, coma.


Handle in accordance with safety and hygiene rules.

SECTION 12: Ecological information

12.1 Toxicity



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Toxicity to fish
flow-through test LC50 *Lepomis macrochirus* (Bluegill sunfish): 15,400 mg/l;96 h
US-EPA

Toxicity to daphnia and other aquatic invertebrates
EC50 *Daphnia magna* (Water flea): 18,260 mg/l; 96 h
(OECD Testing Guide 202)

Toxicity to algae (algae)
static test EC50 *Pseudokirchneriella subcapitata* (green algae): approx. 22,000 mg/l; 96 h
OECD Test Guideline 201

Toxicity to bacteria
static test IC50 active waste: > 1,000 mg/l; 3 hours
OECD Test Guideline OECD 209

12.2 Persistence and degradability

Biodegradability
Result: 99% - Easily degradable.
(OECD Test Guide 301D)

Biochemical Oxygen Demand (BOD)
600 - 1,120 mg/g (5 g)
(IUCLID)

Chemical Oxygen Demand (COD)
1.420mg/g
(IUCLID)

BOD/ThBOD ratio
76 %

Closed bottle test (IUCLID)

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

It is not absorbed by the soil.

12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB.

12.6 Other adverse effects

Discharge into environment must be avoided.

SECTION 13: Disposal considerations

Waste treatment methods

It must be disposed of in accordance with national and local regulations. Do not mix with other products. Uncleaned Treat packages as if it were the product itself ... Waste materials must be disposed of in accordance with national and local regulations.

SECTION 14: Transport information

ADR	IMDG	IATA	ADN	RID
14.1 UN number UN 1230	UN 1230	UN 1230	UN 1230	UN 1230
14.2 UN proper shipping name METHANOL	METHANOL	METHANOL	METHANOL	METHANOL
14.3 Transport hazard class(es) 3(6.1)	3(6.1)	3(6.1)	3(6.1)	3(6.1)



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14.4 Packing group

II II II II II

14.5 Environmental hazards

NO NO NO NO NO

No information available. No information available. No information available. No information available. No information available.

14.6 Special Precautions for User:

No information available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental legislation specific for the substance or mixture

This product safety data sheet complies with the requirements of EU Regulation 1907/2006.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been conducted for this substance.

SECTION 16: Other informations

Full text of H statements

H225 Highly flammable liquid and vapour.

H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled.

H370 Causes damage to organs. (eyes)

Person Who Prepared the Safety Data Sheet:

Name: Erhan DİLER
Certificate Number and Date: 11.29.03 & 11 Şubat 2020
Communication information: 05069903686



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