

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 16.03.2023

Version number 1

Revision: 16.03.2023

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

· **1.1 Product identifier**

· **Trade name:** Methanol

· **Article number:** 151

· **CAS Number:**

67-56-1

· **EC number:**

200-659-6

· **Index number:**

603-001-00-X

· **Registration number** 01-2119433307-44

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

No further relevant information available.

· **Application of the substance / the mixture**

Solvents

Additive

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Möller Chemie GmbH & Co. KG

Bürgerkamp 1

D-48565 Steinfurt

Tel.: 02551/9340-0

Fax: 02551/9340-60

· **Further information obtainable from:** Product safety department

· **1.4 Emergency telephone number:**

Poison Control Center Mainz - 24 hour emergency service - Tel.: +49 (0) 6131/19240

### SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS06 skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.

Acute Tox. 3 H311 Toxic in contact with skin.

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 health hazard

STOT SE 1 H370 Causes damage to the central nervous system and the visual organs.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

(Contd. on page 2)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 16.03.2023

Version number 1

Revision: 16.03.2023

**Trade name: Methanol**

(Contd. of page 1)

**· Hazard pictograms**

GHS02   GHS06   GHS08

**· Signal word** *Danger***· Hazard statements**

- H225                    *Highly flammable liquid and vapour.*  
 H301+H311+H331   *Toxic if swallowed, in contact with skin or if inhaled.*  
 H370                    *Causes damage to the central nervous system and the visual organs.*

**· Precautionary statements**

- P301+P310           *IF SWALLOWED: Immediately call a POISON CENTER/ doctor.*  
 P321                    *Specific treatment (see on this label).*  
 P330                    *Rinse mouth.*  
 P303+P361+P353   *IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].*  
 P361+P364           *Take off immediately all contaminated clothing and wash it before reuse.*  
 P405                    *Store locked up.*  
 P501                    *Dispose of contents/container in accordance with local/regional/national/international regulations.*

**· 2.3 Other hazards**

*The product does not contain any substance above the legal limits included on the list for endocrine disrupting properties established under Article 59(1) of Regulation (EC) No 1907/2006 or under Commission Delegated Regulation (EU) 2017/2100 or of Commission Regulation (EU) 2018/605 has endocrine disrupting properties.*

**· Results of PBT and vPvB assessment****· PBT:**

*The product does not contain any substances above legal limits that meet the criteria for PBT (persistent, bioaccumulative and toxic).*

**· vPvB:**

*The product does not contain any substances above legal limits that meet the criteria for vPvB (very persistent and very bioaccumulative).*

### SECTION 3: Composition/information on ingredients

**· 3.1 Substances****· CAS No. Description**

67-56-1 methanol

**· Identification number(s)**

**· EC number:** 200-659-6

**· Index number:** 603-001-00-X

**· Specific concentration limits**

STOT SE 1; H370:  $C \geq 10 \%$

STOT SE 2; H371:  $3 \% \leq C < 10 \%$

### SECTION 4: First aid measures

**· 4.1 Description of first aid measures**

- General information:** *Immediately remove any clothing soiled by the product.*
- After inhalation:** *Supply fresh air or oxygen; call for doctor.*
- After skin contact:** *Immediately wash with water and soap and rinse thoroughly.*
- After eye contact:**  
*Rinse opened eye for several minutes under running water. Then consult a doctor.*  
*Remove any contact lenses if possible. Rinse further.*

(Contd. on page 3)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 16.03.2023

Version number 1

Revision: 16.03.2023

**Trade name: Methanol**

(Contd. of page 2)

- **After swallowing:**  
Rinse mouth immediately and drink plenty of water.  
Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fire with alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Carbon monoxide, carbon dioxide
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information** Cool endangered receptacles with water spray.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
Absorb with liquid-binding material (sand, diatomaceous earth, acid binder, universal binder, sawdust).  
Ensure adequate ventilation.
- **6.4 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.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Store away from reducing agents.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **Storage class:**  
3  
flammable
- **7.3 Specific end use(s)** No further relevant information available.

EU

(Contd. on page 4)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 16.03.2023

Version number 1

Revision: 16.03.2023

Trade name: Methanol

(Contd. of page 3)

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

##### · **Ingredients with limit values that require monitoring at the workplace:**

###### 67-56-1 methanol

IOELV	Long-term value: 260 mg/m <sup>3</sup> , 200 ppm
	Skin

#### · **DNELs**

worker:

long-term systemic, dermal: 20 mg/kg bw/day

short-term systemic, dermal: 20 mg/kg bw/day

long-term systemic, inhalative: 130 mg/m<sup>3</sup>Short-term local, inhalative: 130 mg/m<sup>3</sup>

· **Additional information:** The lists valid during the making were used as basis.

#### · 8.2 Exposure controls

· **Appropriate engineering controls** No further data; see item 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Hand protection**



Protective gloves

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

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

Butyl rubber, BR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection**



Tightly sealed goggles

· **Body protection:** Use protective suit.

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · **General Information**

· <b>Colour:</b>	Colourless
· <b>Odour:</b>	Alcohol-like
· <b>Melting point/freezing point:</b>	-98 °C
· <b>Boiling point or initial boiling point and boiling range</b>	64.7 °C

(Contd. on page 5)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 16.03.2023

Version number 1

Revision: 16.03.2023

**Trade name: Methanol**

(Contd. of page 4)

<b>· Lower and upper explosion limit</b>	
· Lower:	5.5 Vol %
· Upper:	44 Vol %
· Flash point:	11 °C
· Ignition temperature:	455 °C
<b>· Solubility</b>	
· water:	Fully miscible.
· Vapour pressure at 20 °C:	128 hPa
<b>· Density and/or relative density</b>	
· Density at 20 °C:	0.79 g/cm <sup>3</sup>

<b>· 9.2 Other information</b>	
<b>· Appearance:</b>	
· Form:	Fluid
<b>· Important information on protection of health and environment, and on safety.</b>	
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

<b>· Information with regard to physical hazard classes</b>	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
<b>· Flammable liquids</b>	
Highly flammable liquid and vapour.	
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
<b>· Substances and mixtures, which emit flammable gases in contact with water</b>	
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

### **SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with oxidising agents.
- **10.4 Conditions to avoid** Avoid all sources of ignition: heat, sparks, open flames.
- **10.5 Incompatible materials:**
  - Strong oxidizing agents
  - Strong acids
  - alkali metals
- **10.6 Hazardous decomposition products:**
  - Formaldehyde
  - Carbon monoxide

EU

(Contd. on page 6)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 16.03.2023

Version number 1

Revision: 16.03.2023

Trade name: Methanol

(Contd. of page 5)

### SECTION 11: Toxicological information

#### · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### · Acute toxicity

Toxic if swallowed, in contact with skin or if inhaled.

##### · LD/LC50 values relevant for classification:

Dermal	LD50	15.800 mg/kg (rabbit)
Inhalative	LC50/ 4h	85 mg/l (rat)

· **Skin corrosion/irritation** Slight irritant effect possible - does not require labeling.

· **Serious eye damage/irritation** Based on available data, the classification criteria are not met.

· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

· **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 the visual organs.

· **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.

#### · 11.2 Information on other hazards

· **Endocrine disrupting properties** Substance is not listed.

### SECTION 12: Ecological information

#### · 12.1 Toxicity

· **Aquatic toxicity:** LC50/24 h: 3290 mg/l (*Daphnia magna*)

· **12.2 Persistence and degradability** Easily biodegradable

· **12.3 Bioaccumulative potential** Keine wesentliche Bioakkumulation

· **12.4 Mobility in soil** No further relevant information available.

#### · 12.5 Results of PBT and vPvB assessment

· **PBT:** The product is not considered to be persistent, bioaccumulating nor toxic (PBT).

· **vPvB:** The product is not considered to be persistent or very bioaccumulative (vPvB).

· **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.

#### · 12.7 Other adverse effects

##### · Additional ecological information:

##### · General notes:

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### SECTION 13: Disposal considerations

#### · 13.1 Waste treatment methods

· **Recommendation** Disposal according to local regulations.

##### · Uncleaned packaging:

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

#### · 14.1 UN number or ID number

· **ADR, IMDG, IATA**

UN1230

(Contd. on page 7)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 16.03.2023

Version number 1

Revision: 16.03.2023

**Trade name: Methanol**

(Contd. of page 6)

· **14.2 UN proper shipping name**  
· **ADR** 1230 METHANOL  
· **IMDG, IATA** METHANOL

· **14.3 Transport hazard class(es)**  
· **ADR**



· **Class** 3 (FT1) Flammable liquids.  
· **Label** 3+6.1

· **IMDG**

· **Class** 3 Flammable liquids.  
· **Label** 3/6.1

· **IATA**

· **Class** 3 Flammable liquids.  
· **Label** 3 (6.1)

· **14.4 Packing group**· **ADR, IMDG, IATA** II· **14.5 Environmental hazards:**· **Marine pollutant:** No· **14.6 Special precautions for user** Warning: Flammable liquids.· **Hazard identification number (Kemler code):** 336· **EMS Number:** F-E,S-D· **Stowage Category** B· **Stowage Code** SW2 Clear of living quarters.· **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

· **Transport/Additional information:**· **ADR**· **Limited quantities (LQ)** 1L· **Excepted quantities (EQ)** Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· **Transport category** 2· **Tunnel restriction code** D/E· **IMDG**· **Limited quantities (LQ)** 1L· **Excepted quantities (EQ)** Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

(Contd. on page 8)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 16.03.2023

Version number 1

Revision: 16.03.2023

Trade name: **Methanol**

(Contd. of page 7)

· UN "Model Regulation":

UN 1230 METHANOL, 3 (6.1), II

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 500 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 5.000 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 40, 69
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**  
Substance is not listed.
- **REGULATION (EU) 2019/1148**
- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**  
Substance is not listed.
- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS** Substance is not listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

### SECTION 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.

- **Department issuing SDS:** Product safety department
- **Contact:** Mrs. Steyer
- **Abbreviations and acronyms:**  
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
 ICAO: International Civil Aviation Organisation  
 ADR: Accord relatif au transport international 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 Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 DNEL: Derived No-Effect Level (REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Flam. Liq. 2: Flammable liquids – Category 2  
 Acute Tox. 3: Acute toxicity – Category 3  
 STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

EU