

Trade name: Methanolum

Substance number: 155600

Version: 7 / CH

Date revised: 18.08.2025

Replaces Version: 6 / CH

Print date: 18.08.25

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Methanolum

Item No. 15560000

**Registration no.**

Registration no. 01-2119433307-44-XXXX

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/preparation**

Chemical, Chemical for synthesis, industry

**1.3. Details of the supplier of the safety data sheet****Address/Manufacturer**

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible  
for this SDS**1.4. Emergency telephone number**

Switzerland :145 / Abroad +41 (0)44 251 51 51

**SECTION 2: Hazards identification \*\*\*****2.1. Classification of the substance or mixture****Classification (Regulation (EC) No. 1272/2008)**

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2 H225

Acute Tox. 3 H301

Acute Tox. 3 H311

Acute Tox. 3 H331

STOT SE 1 H370

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

**2.2. Label elements****Labelling according to regulation (EC) No 1272/2008****Hazard pictograms****Signal word**

Danger

**Hazard statements**

H225

Highly flammable liquid and vapour.

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H370 Causes damage to organs.  
 H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.  
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor.  
 P321 Specific treatment (see ... on this label).  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.

**Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)**

contains \*\*\* methanol

**2.3. Other hazards**

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria. This substance does not have endocrine disrupting properties with respect to humans. This substance does not have endocrine disrupting properties with respect to non-target organisms.

**SECTION 3: Composition/information on ingredients \*\*\*****3.1. Substances****Molecular weight**

Value	32.04	g/mol
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**Hazardous ingredients \*\*\*****methanol**

CAS No.	67-56-1	
EINECS no.	200-659-6	
Registration no.	01-2119433307-44-XXXX	
Concentration	>= 100	%
Classification (Regulation (EC) No. 1272/2008)		
	Flam. Liq. 2	H225
	Acute Tox. 3	H301
	Acute Tox. 3	H311
	Acute Tox. 3	H331
	STOT SE 1	H370

**Concentration limits (Regulation (EC) No. 1272/2008)**

	STOT SE 1	H370	>= 10 %
	STOT SE 2	H371	>= 3 < 10 %
ATE	oral	100.1	mg/kg
ATE	dermal	300.1	mg/kg
cATpE	inhalative, Dust/Mist	0.5	mg/l
ATE	inhalative, Vapors	3.1	mg/l

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove affected person from danger area, lay him down. Take off contaminated clothing and shoes immediately. Adhere to personal protective measures when giving first aid

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**After inhalation**

Ensure supply of fresh air. If necessary, give oxygen. Summon a doctor immediately. Irregular breathing/no breathing: artificial respiration. If the patient is likely to become unconscious, place and transport in stable sideways position. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

**After skin contact**

Wash off immediately with soap and water and rinse well. Summon a doctor immediately.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

**After ingestion**

Rinse out mouth and give plenty of water to drink. Induce vomiting if patient is conscious, seek medical advice. If individual is drowsy or unconscious place in recovery position (on left side, with head down). Summon a doctor immediately.

**4.2. Most important symptoms and effects, both acute and delayed**

Shortness of breath, Dizziness, Headache, Nausea, Excitement, Acidosis, Convulsions, Unconsciousness, Narcosis, Danger of blindness.

**4.3. Indication of any immediate medical attention and special treatment needed****Hints for the physician / treatment**

Treat symptomatically. Allow to drink about 100 ml of approx. 40% ethyl alcohol (ethanol).

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, Dry powder, Water spray jet, Alcohol-resistant foam

**Non suitable extinguishing media**

Full water jet

**5.2. Special hazards arising from the substance or mixture**

Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); Can build mixtures of gas and air which are capable of explosion. Vapours heavier than air.

**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.

**Other information**

Cool endangered containers with water spray jet.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep people away and stay on the upwind side. Avoid contact with eyes and skin. Use personal protective clothing. Refer to protective measures listed in Sections 7 and 8.

**6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Do not empty into drains, caverns and basements. Advise water authority if spillage has entered water course or drainage system.

**6.3. Methods and material for containment and cleaning up**

Send in suitable containers for recovery or disposal. Take up with absorbent material (eg sand, kieselguhr, universal binder). When picked up, treat material as prescribed under Section 13 "Disposal".

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Ensure adequate ventilation.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Keep container tightly closed. For personal protection see Section 8. Avoid contact with skin and eyes. Avoid inhaling dusts/ billows/ steams. Provide good ventilation of working area (local exhaust ventilation if necessary). Provide good room ventilation even at ground level (vapours are heavier than air). Take action to prevent static discharges.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Vapours can form an explosive mixture with air. Take action to prevent static discharges. Use explosion-proof equipment/fittings and non-sparking tools. Risk of explosion if the liquid enters the drains.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Recommended storage temperature

Value	15	-	25	°C
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#### Requirements for storage rooms and vessels

explosion proof. Provide solvent-resistant and impermeable floor. Use stainless steel containers. Do not use light metal drums. Unsuitable material: Do not use lead containers. Do not use aluminium containers. Do not use zinc containers. Prevent unauthorized access.

#### Hints on storage assembly

Do not store with oxidizing agents. Do not store with acids.

#### Storage classes

Storage class according to TRGS 510	3	Flammable liquid
Storage category (Switzerland)	3	Flammable liquid

#### Further information on storage conditions

Keep container tightly closed, cool and dry. Protect from direct sunlight. Protect from heat. Protect from atmospheric moisture and water. Product is hygroscopic. Keep under lock and key or accessible only to specialists or people who are authorized.

## SECTION 8: Exposure controls/personal protection \*\*\*

### 8.1. Control parameters

#### Exposure limit values \*\*\*

##### methanol

List	SUVA			
Type	MAK			
Value	260	mg/m <sup>3</sup>	200	ppm(V)
Short term exposure limit	520	mg/m <sup>3</sup>	400	ppm(V)

Skin resorption / sensibilisation: H; Pregnancy group: S; Remarks: H B SSc; ZNS; INRS NIOSH

#### Derived No/Minimal Effect Levels (DNEL/DMEL)

##### methanol

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	20	mg/kg/d

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Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	130	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	130	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	20	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	130	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	130	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Acute	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	4	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	26	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Acute	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	4	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	

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Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	26	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	4	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	26	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	4	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	26	mg/m <sup>3</sup>

**Predicted No Effect Concentration (PNEC)****methanol**

Type of value	PNEC	
Type	Freshwater	
Concentration	20	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	2.08	mg/l
Type of value	PNEC	
Type	Sediment	
Concentration	570.4	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	100	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	100	mg/l

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Conditions	Intermittend	
Concentration	1540	mg/l
Type	Marine sediment	
Concentration	7.7	mg/kg

## 8.2. Exposure controls

### Exposure controls

See Section 7. No measures exceeding the ones mentioned necessary.

### General protective and hygiene measures

Keep away from food-stuffs, beverages and feed-stocks. Wash hands before breaks and after work. Avoid contact with skin and eyes. Hold eye wash fountain available. At work do not eat, drink, smoke or take drugs. Do not inhale gases/vapours/aerosols.

### Respiratory protection

Breathing apparatus in the event of aerosol or mist formation. Gas filterAX.

### Hand protection

Protective gloves	
Appropriate Material	butyl
Material thickness	0.5 mm
Breakthrough time	>= 8 h
Appropriate Material	Fluoro carbon rubber - FKM
Material thickness	0.4 mm
Breakthrough time	>= 4 h
Appropriate Material	Polychloroprene
Material thickness	0.5 mm
Breakthrough time	>= 1 h

### Eye protection

Tightly fitting safety glasses

### Body protection

Solvent-resistant protective clothing

### Environmental exposure controls

Do not allow to enter drains or water courses.

## SECTION 9: Physical and chemical properties

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

Physical state	liquid	
Colour	colourless	
Odour	alcohol-like	
Melting point		
Value	-97.8	°C
Method	DIN 51761	
Freezing point		
Value	- 98	°C
Boiling point or initial boiling point and boiling range		
Value	64.7	°C
Method	DIN 51761	
Upper and lower explosive limits		
Lower explosion limit	5.5	%(V)
Upper explosion limit	44	%(V)

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**Flash point**

Value 9 to 12 °C

**Viscosity****dynamic**

Value 0.544 to 0.59 mPa.s

Temperature 25 °C

Method DIN 51550

**Vapour pressure**

Value 169.27 hPa

Temperature 25 °C

Method DIN 51754

Value 128 hPa

Temperature 20 °C

**Density and/or relative density**Value 0.79 g/cm<sup>3</sup>

Temperature 20 °C

Method DIN 51757

Source Safety Data Sheet Supplier

**Relative vapour density**

Value 1.1

Temperature 20 °C

**9.2. Other information****Solubility in water**

Remarks Completely miscible

**Auto-ignition temperature**

Value &gt; 455 °C

**Other information**

Forms explosive mixture with air are possible.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Formation of explosive gas/air mixtures.

**10.2. Chemical stability**

Stable under recommended storage and handling conditions (see section 7).

**10.3. Possibility of hazardous reactions**

No hazardous reactions known. No decomposition if stored and applied as directed.

**10.4. Conditions to avoid**

Heat. Flames. Sparks

**10.5. Incompatible materials**

Oxidising agents, Reactions with light metals, with evolution of hydrogen. Reactions with halogenated compounds. Formation of explosive gas/air mixtures.

**10.6. Hazardous decomposition products**

Flammable gases/vapours, Irritant gases/vapours, Toxic gases/vapours, Formaldehyde, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

**SECTION 11: Toxicological information**

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**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

ATE	100.1	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

**Acute oral toxicity (Components)****methanol**

Species	Human	
ATE	100.1	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	
Source	Merck KGaA Safety Data Sheet	

**Acute dermal toxicity**

ATE	300.1	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

**Acute dermal toxicity (Components)****methanol**

Species	Human	
ATE	300.1	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

**Acute inhalational toxicity**

ATE	3.1	mg/l
Administration/Form	Vapors	
Method	calculated value (Regulation (EC) No. 1272/2008)	
ATE	0.5	mg/l
Administration/Form	Dust/Mist	
Method	calculated value (Regulation (EC) No. 1272/2008)	

**Acute inhalative toxicity (Components)****methanol**

Species	Human	
ATE	3.1	mg/l
Duration of exposure	4	h
Administration/Form	Vapors	

**Skin corrosion/irritation (Components)****methanol**

Species	rabbit
Remarks	No effect of irritation known.
Source	ECHA

**Serious eye damage/irritation (Components)****methanol**

Species	rabbit
Method	OECD 405
Remarks	None

**Sensitization (Components)****methanol**

Species	guinea pig
Method	OECD 406
Remarks	No sensitisation effect known.

**Subacute, subchronic, chronic toxicity (Components)****methanol**

Remarks	No data available.
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**Mutagenicity (Components)****methanol**

Species Salmonella typhimurium  
 evaluation No mutagenicity in the Ames-test.  
 Method OECD 471  
 Remarks negative

**methanol**

Species hamster  
 evaluation No experimental information on genotoxicity in vitro available.

**methanol**

Route of exposure intraperitoneal  
 Species mouse  
 evaluation No mutagenicity in the micronucleus test.  
 Method OECD 474

**Reproduction toxicity (Components)****methanol**

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

**Carcinogenicity (Components)****methanol**

Remarks None

**Specific Target Organ Toxicity (STOT) (Components)****methanol****Single exposure**

evaluation Causes damage to organs.  
 Route of exposure oral  
 Organs: Eyes  
 Species Human

**methanol****Single exposure**

evaluation Causes damage to organs.  
 Route of exposure oral  
 Organs: Nervous system  
 Species Human

**11.2 Information on other hazards****Endocrine disrupting properties with respect to humans**

This substance does not have endocrine disrupting properties with respect to humans.

**SECTION 12: Ecological information \*\*\*****12.1. Toxicity****Fish toxicity (Components)****methanol**

Species Bluegill (Lepomis macrochirus)  
 LC50 15400 mg/l  
 Duration of exposure 96 h  
 Source (EPA 600/3-75/009)

**Daphnia toxicity (Components)****methanol**

Species Daphnia magna

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EC50 > 18260 mg/l  
 Duration of exposure 96 h  
 Method OECD 202

**Algae toxicity (Components)****methanol**

Species Pseudokirchneriella subcapitata  
 ErC50 22000 mg/l  
 Duration of exposure 96 h  
 Method OECD 201

**Bacteria toxicity (Components)****methanol**

Species activated sludge  
 IC50 > 1000 mg/l  
 Duration of exposure 3 h  
 Method OECD 209

**12.2. Persistence and degradability****General information**

Do not allow it to reach soil, ground water, water bodies or sewage system.

**Biodegradability (Components)****methanol**

Value 99 %  
 evaluation Readily biodegradable  
 Method OECD 301D

**Ready degradability (Components)****methanol**

Value 99 %  
 Duration of test 30 d  
 Method OECD 301D  
 Source Merck KGaA Safety Data Sheet

**Chemical oxygen demand (COD) (Components)****methanol**

Value 1420 mg/g  
 Source IUCLID

**Biochemical oxygen demand (BOD5) (Components)****methanol**

Value 600 to 1120 mg/g  
 Source IUCLID

**12.3. Bioaccumulative potential****Octanol/water partition coefficient (log Pow) (Components)****methanol**

log Pow -0.77

**Bioconcentration factor (BCF) (Components)****methanol**

BCF 1.0

**12.4. Mobility in soil****Mobility in soil**

Moderately mobile in soils

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### **Mobility in soil (Components)**

#### **methanol**

Will not adsorb on soil.

## **12.5. Results of PBT and vPvB assessment**

### **General information**

Do not allow to enter drains or water courses

### **Results of PBT and vPvB assessment \*\*\***

The Substance does not meet PBT-criteria.

This substance does not meet the vPvB-criteria.

## **12.6 Endocrine disrupting properties**

### **Endocrine disrupting properties with respect to the environment**

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

## **12.7. Other adverse effects**

### **General information / ecology**

Do not allow it to reach ground water, water bodies or sewage system.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **Disposal recommendations for the product**

EWC waste code

No not dispose with rubbish.

Disposal in compliance with local and national regulations.

EWC waste code

Should not be released into the sanitary sewer system.

#### **Disposal recommendations for packaging**

Disposal in compliance with local and national regulations.

Unpurified packings can contain mixtures of gas and air which are capable of explosion.

## **SECTION 14: Transport information**

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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	D/E		
14.1. UN number	1230	1230	1230
14.2. UN proper shipping name	METHANOL	METHANOL	METHANOL
14.3. Transport hazard class(es)	3	3	3
Subsidiary risk	6.1	6.1	6.1
Label			
14.4. Packing group	II	II	II
Limited Quantity	1 I		
Transport category	2		

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Water Hazard Class (Germany)

Water Hazard Class (Germany) WGK 2

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

## SECTION 16: Other information

### Hazard statements listed in Chapter 3

H225 Highly flammable liquid and vapour.  
H301 Toxic if swallowed.  
H311 Toxic in contact with skin.  
H331 Toxic if inhaled.  
H370 Causes damage to organs.

### CLP categories listed in Chapter 3

Acute Tox. 3 Acute toxicity, Category 3  
Flam. Liq. 2 Flammable liquid, Category 2  
STOT SE 1 Specific target organ toxicity - single exposure, Category 1

### Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*  
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

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