

Trade name: Methanolum

Substance number: 155620

Version: 3 / CH

Date revised: 03.01.2025

Replaces Version: 2 / CH

Print date: 03.01.25

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

1.1. Product identifier

Methanolum

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

Use of the substance/preparation

Manufacture of pharmaceutical products

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
person responsible
for this SDS sdb@haenseler.ch

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

Precautionary statements ***

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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.
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

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

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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 (CO₂); The product is combustible. Keep away sources of ignition. Forms explosive mixture with air are possible. Vapours heavier than air. In case of combustion evolution of dangerous gases possible.

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

Use self-contained breathing apparatus. Use personal protective clothing.

Other information

Cool endangered containers with water spray jet. Collect contaminated fire-fighting water separately, must not be discharged into the drains.

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

Do not inhale vapours. Use breathing apparatus if exposed to vapours/dust/aerosol. Ensure adequate ventilation. Keep away sources of ignition. Not required.

6.2. Environmental precautions

Do not empty into drains. Explosive

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material. When picked up, treat material as prescribed under Section 13 "Disposal". Clean up affected area.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

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Advice on safe handling

Avoid contact with skin, eyes and clothing. For personal protection see Section 8.

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 ³	200	ppm(V)
Short term exposure limit	520	mg/m ³	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

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 ³

Type of value	Derived No Effect Level (DNEL)
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Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	130	mg/m ³
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 ³
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 ³
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 ³
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)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	26	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	

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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 ³

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 ³

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

Conditions	Intermittend	
Concentration	1540	mg/l

Type	Marine sediment	
Concentration	7.7	mg/kg

8.2. Exposure controls

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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

If vapours occur, use filter type A (= against vapours of organic compounds) according to EN 14387. At intensive and longer exposition use self-contained breathing apparatus.

Hand protection

Use Permanent hand contact

Appropriate Material Butyl rubber - Butyl

Material thickness 0.7 mm

Breakthrough time 480 min

Hand protection must comply with EN 374.

Use Short-term hand contact

Appropriate Material viton

Material thickness 0.7 mm

Breakthrough time 120 min

Hand protection must comply with EN 374.

Eye protection

Eye protection must comply with EN 166. Tightly fitting safety glasses

Body protection

Fire-resistant antistatic 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 characteristic

Melting point

Value -97.8 °C
 Source ECHA

Freezing point

Value - 98 °C

Boiling point or initial boiling point and boiling range

Value 64.7 °C
 Pressure 1013 hPa
 Source ECHA

Upper and lower explosive limits

Lower explosion limit 5.5 to 44 %(V)

Flash point

Value 9.7 °C
 Method Regulation (EC) No. 440/2008, Annex, A.9

Ignition temperature

Value 455 °C

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Method DIN 51794

pH value

Remarks No data available

Viscosity**dynamic**Value > 0.544 to 0.59 mPa.s
Temperature 25 °C**kinematic**Value 0.54 to 0.59 mm²/s
Temperature 20 °C**Partition coefficient n-octanol/water (log value)**

log Pow -0.77

Vapour pressureValue 169.27 hPa
Temperature 25 °C**Density and/or relative density**Value 0.79 to 0.8 g/cm³
Temperature 20 °C

Remarks Relative Density according specification

Relative vapour density

Value 1.11

9.2. Other information**Odour threshold**

Value 10 µg/l

Evaporation rate

Value 6.3

Solubility in waterValue 1000 g/l
Temperature 20 °C**Minimum ignition energy**

Minimum ignition energy 0.14 MJ

Auto-ignition temperature

Value 455 °C

Explosive properties

evaluation No data available

Other information

Forms explosive mixture with air are possible.

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

Risk of ignition or formation of inflammable gases or vapours with: Air

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Possible incompatibility with materials listed under section 10.5.

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10.4. Conditions to avoid

Heat. Sparks

10.5. Incompatible materials

Risk of explosion with: Oxidising agents, Sodium hypochlorite, Nitrogen oxides (NO_x), Reaction with Sulfuric acid. Explosive reactions with oxidising agents such as potassium chlorate and/or peroxides. Halogens, Reactions with halogenated compounds. lithium tetrahydridoaluminate, hydrogen peroxide (H₂O₂), Magnesium, Reaction with nitric acid. Exothermic reaction with acids. Incompatible with acid chlorides and acid anhydrides. Reducing agents, chlorine liquide, Magnesium, Fluorine, Phosphorus oxides, Developpment of toxic gases/vapours. Alkaline metals, Reactions with earth alkali metals.

10.6. Hazardous decomposition products

In the event of fire the following can be released: Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information**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

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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.
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Carcinogenicity (Components)**methanol**

Remarks	None
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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**

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

Experience in practice

May lead to nausea, headache, drowsiness and dizziness. When swallowed, there is a danger of blindness. Liver damage is possible. Kidney damage is possible. Heart damage is possible.

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

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

Daphnia toxicity (Components)**methanol**

Species	Daphnia magna	
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	

methanol

Value	95	%
Duration of test	20	d
Source	Safety Data Sheet Supplier	

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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**Partition coefficient n-octanol/water (log value)**

log Pow	-0.77
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Octanol/water partition coefficient (log Pow) (Components)**methanol**

log Pow	-0.77
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Bioconcentration factor (BCF) (Components)**methanol**

BCF	1.0
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12.4. Mobility in soil**Mobility in soil**

Moderately mobile in soils

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.
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Disposal in compliance with local and national regulations.

EWC waste code	Should not be released into the sanitary sewer system.
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Disposal recommendations for packaging

Disposal in compliance with local and national regulations.

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

SECTION 14: Transport information

	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

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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.