

Trade name: Methanolum

Substance number: 155600

Version: 6 / CH

Date revised: 14.08.2023

Replaces Version: 5 / CH

Print date: 14.08.23

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

1.1. Product identifier

Methanolum

Item No. 15560000

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.

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.

Trade name: Methanolum

Substance number: 155600

Version: 6 / CH

Date revised: 14.08.2023

Replaces Version: 5 / CH

Print date: 14.08.23

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
-------	-------	-------

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	143	mg/kg
cATpE	dermal	300	mg/kg
cATpE	inhalative, Dust/Mist	0.5	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 or ventilator.

After skin contact

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

Trade name: Methanolum

Substance number: 155600

Version: 6 / CH

Date revised: 14.08.2023

Replaces Version: 5 / CH

Print date: 14.08.23

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); 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". 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

Trade name: Methanolum

Substance number: 155600

Version: 6 / CH

Date revised: 14.08.2023

Replaces Version: 5 / CH

Print date: 14.08.23

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

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	40		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	260		mg/m ³

Type of value	Derived No Effect Level (DNEL)		
Reference group	Worker		

Trade name: Methanolum

Substance number: 155600

Version: 6 / CH

Date revised: 14.08.2023

Replaces Version: 5 / CH

Print date: 14.08.23

Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	260	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	40	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	260	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	260	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	8	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	50	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	8	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	50	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	

Trade name: Methanolum

Substance number: 155600

Version: 6 / CH

Date revised: 14.08.2023

Replaces Version: 5 / CH

Print date: 14.08.23

Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	8	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	50	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	8	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	50	mg/m ³

Predicted No Effect Concentration (PNEC)

methanol

Type of value	PNEC	
Type	Freshwater	
Concentration	154	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	15.4	mg/l
Type of value	PNEC	
Type	Sediment	
Concentration	570.4	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	23.5	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	100	mg/l
Conditions	Intermittend	
Concentration	1540	mg/l

8.2. Exposure controls

Exposure controls

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

General protective and hygiene measures

Trade name: Methanolum

Substance number: 155600

Version: 6 / CH

Date revised: 14.08.2023

Replaces Version: 5 / CH

Print date: 14.08.23

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)
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

Trade name: Methanolum

Substance number: 155600

Version: 6 / CH

Date revised: 14.08.2023

Replaces Version: 5 / CH

Print date: 14.08.23

Method	DIN 51754		
Value	128		hPa
Temperature	20	°C	

Density and/or relative density

Value	0.79		g/cm ³
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	> 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**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

ATE	143	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute oral toxicity (Components)**methanol**

Species	Human	
LDLo	143	mg/kg
Source	RTECS	

Trade name: Methanolum

Substance number: 155600

Version: 6 / CH

Date revised: 14.08.2023

Replaces Version: 5 / CH

Print date: 14.08.23

Acute dermal toxicity

ATE	300	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute dermal toxicity (Components)**methanol**

Species	rabbit	
LD50	17100	mg/kg
Source	Merck KGaA Safety Data Sheet	

Acute inhalational toxicity

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

Acute inhalative toxicity (Components)**methanol**

Species	rat	
LC50	131.25	mg/l
Duration of exposure	4	h
Administration/Form	Vapors	
Source	ECHA	

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

Species	rabbit
Remarks	No effect of irritation known.
Source	ECHA

methanol

Remarks	Repeated and prolonged skin contact may lead to defatting and irritation of the skin.
---------	---

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.
Source	Maximierungstest (GMPT)

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

Remarks	No data available.
---------	--------------------

methanol

NOAEL	
-------	--

Mutagenicity (Components)**methanol**

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

Trade name: Methanolum

Substance number: 155600

Version: 6 / CH

Date revised: 14.08.2023

Replaces Version: 5 / CH

Print date: 14.08.23

methanol

Remarks negative on animals

Reproduction toxicity (Components)**methanol**

Species Rats (male/female)
 Dose 1.33 mg/l
 evaluation No negative effects
 Source Safety Data Sheet Supplier

Carcinogenicity (Components)**methanol**

Remarks negative on animals

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

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

methanol

Route of exposure inhalative
 Species rat
 NOAEL 0.13 mg/l
 Duration of exposure 365 d
 Method OECD 453
 Source Merck KGaA Safety Data Sheet

methanol

Route of exposure inhalative
 Species Rats (male/female)
 LOAEL 1.3 mg/l
 Duration of exposure 365 d
 Method OECD 453
 Source Merck KGaA Safety Data Sheet

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*
 EC50 > 10000 mg/l
 Duration of exposure 48 h

Trade name: Methanolum

Substance number: 155600

Version: 6 / CH

Date revised: 14.08.2023

Replaces Version: 5 / CH

Print date: 14.08.23

Source	IUCLID		
methanol			
Species	Daphnia magna		
EC50	> 1000		mg/l
Duration of exposure	48	h	
Method	OECD 201		

Algae toxicity (Components)

methanol			
Species	Pseudokirchneriella subcapitata		
EC50	22000		mg/l
Duration of exposure	96	h	
Method	OECD 201		
Source	Merck KGaA Safety Data Sheet		

Bacteria toxicity (Components)

methanol			
Species	activated sludge		
IC50	> 1000		mg/l
Duration of exposure	3	h	
Method	OECD 209		
Source	Merck KGaA Safety Data Sheet		

12.2. Persistence and degradability**General information**

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

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		

Chemical oxygen demand (COD) (Components)

methanol			
Value	1.42		mg/g
Source	IUCLID		

Biochemical oxygen demand (BOD5) (Components)

methanol			
Value	600	to	1120
Duration of test	5	d	
Source	IUCLID		

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

methanol		
log Pow	-0.77	

Bioconcentration factor (BCF) (Components)

methanol		
BCF	< 10	

Trade name: Methanolum

Substance number: 155600

Version: 6 / CH

Date revised: 14.08.2023

Replaces Version: 5 / CH

Print date: 14.08.23

12.4. Mobility in soil

Mobility in soil

Moderately mobile in soils

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

Trade name: Methanolum




Substance number: 155600

Version: 6 / CH

Date revised: 14.08.2023

Replaces Version: 5 / CH

Print date: 14.08.23

	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.

Trade name: Methanolum

Substance number: 155600

Version: 6 / CH

Replaces Version: 5 / CH

Date revised: 14.08.2023

Print date: 14.08.23