

Trade name: Methyleni chloridum

Substance number: 155655

Version: 5 / CH

Date revised: 18.06.2025

Replaces Version: 4 / CH

Print date: 18.06.25

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

### **1.1. Product identifier**

Methyleni chloridum

Item No. 15565500

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

#### **Use of the substance/preparation**

Raw material for pharmaceutical production and analysis

### **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)

Skin Irrit. 2 H315

Eye Irrit. 2 H319

Carc. 2 H351

STOT SE 3 H336

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**

Warning

##### **Hazard statements**

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H351

Suspected of causing cancer.

H336

May cause drowsiness or dizziness.

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**Precautionary statements \*\*\***

P201	Obtain special instructions before use.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medicinal advice/attention.

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

contains dichloromethane

**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****Molecular weight**

Value	84.93	g/mol
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**Hazardous ingredients****dichloromethane**

CAS No.	75-09-2		
EINECS no.	200-838-9		
Registration no.	01-2119480404-41-XXXX		
Concentration	>= 50	%	
Classification (Regulation (EC) No. 1272/2008)			
	Skin Irrit. 2	H315	
	Eye Irrit. 2	H319	
	Carc. 2	H351	
	STOT SE 3	H336	Nervous system

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

In any case show the physician the Safety Data Sheet. Take affected person to fresh air. Irregular breathing/no breathing: artificial respiration. In case of persistent symptoms consult doctor.

**After inhalation**

Ensure supply of fresh air. Take medical treatment.

**After skin contact**

After contact with skin, wash immediately with plenty of water. Remove contaminated, soaked clothing immediately and dispose of safely. Take medical treatment.

**After eye contact**

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice. Eye treatment by an ophthalmologist.

**After ingestion**

Careful when inducing vomiting. Do not induce vomiting - aspiration hazard. Let plenty of water be drunk in small gulps. Administer activated charcoal. Summon a doctor immediately.

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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

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

The product is not combustible. If a fire breaks out nearby evolution of dangerous gases possible. In the event of fire the following can be released: Hydrogen chloride (HCl); Phosgene

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighting**

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

#### **Other information**

Suppress vapours 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**

Remove persons to safety. Do not inhale vapours. Avoid contact with skin, eyes and clothing. Ensure supply of fresh air.

### **6.2. Environmental precautions**

Do not empty into drains.

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

Pick up with absorbent material (e.g. general-purpose binder). Clean contaminated floors and objects thoroughly, observing environmental regulations. Pump off large amounts. When picked up, treat material as prescribed under Section 13 "Disposal".

### **6.4. Reference to other sections**

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Work only in fume cupboards. Do not inhale substance. Avoid development of dusts/ billows/ steams.

### **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**

Keep in original packaging, tightly closed. Unsuitable material: plastic materials. Unsuitable materials: Polyethylene, rubber. Do not use steel containers.

#### **Storage classes**

Storage class according to TRGS 510	6.1D	Non-combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects
Storage category (Switzerland)	10/12	Other liquid hazardous substances

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**Further information on storage conditions**

Keep container tightly closed.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limit values****dichloromethane**

List	SUVA			
Type	MAK			
Value	177	mg/m <sup>3</sup>	50	ppm(V)
Short term exposure limit	706	mg/m <sup>3</sup>	200	ppm(V)
Skin resorption / sensibilisation: H; Remarks: H C1#B B; Kopfweg; HSE NIOSH DFG				

**Derived No/Minimal Effect Levels (DNEL/DMEL)****dichloromethane**

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	176			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	12			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	44			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	5.82			mg/kg/d
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	0.06			mg/kg/d

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

Type of value	PNEC
Type	Freshwater

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Concentration	0.31	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0.031	mg/l
Type of value	PNEC	
Conditions	Intermittend	
Concentration	0.27	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	26	mg/l
Type of value	PNEC	
Type	Sediment	
Concentration	2.57	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0.262	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0.33	mg/kg

## 8.2. Exposure controls

### General protective and hygiene measures

Wash contaminated clothing before reuse. Preventative skin protection. Wash hands and face after work.

### Respiratory protection

Breathing apparatus in the event of vapours. Gas filterAX.

### Hand protection

Protective gloves  
 Appropriate Material viton  
 Material thickness 0.70 mm  
 Breakthrough time > 120 min

### Eye protection

Safety glasses; Eye protection must comply with EN 166.

### Body protection

Protective clothing

## SECTION 9: Physical and chemical properties

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

Physical state liquid  
 Colour colourless  
 Odour ether-like

### Melting point

Value -95 °C  
 Pressure 1013 hPa

### Boiling point or initial boiling point and boiling range

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Value	40		°C
Pressure	1013	hPa	

**Flammability**

Not applicable

**Upper and lower explosive limits**

Lower explosion limit	13	%(V)
Upper explosion limit	22	%(V)

**Flash point**

Value	°C
Method	closed cup
Remarks	Not applicable

**Ignition temperature**

Value	605	°C
Method	DIN 51794	

**pH value**

Remarks	No data available
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**Viscosity****dynamic**

Value	0.42	mPa.s
Temperature	25	°C

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

log Pow	1.25
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**Vapour pressure**

Value	584	hPa
Temperature	25	°C

**Density and/or relative density**

Value	1.33	g/cm <sup>3</sup>
Temperature	20	°C

**9.2. Other information****Evaporation rate**

Value	1.9
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**Solubility in water**

Value	13.2	g/l
Temperature	25	°C

**Auto-ignition temperature**

Value	605	°C
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**Explosive properties**

evaluation	No data available
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**Oxidising properties**

Remarks	No data available
Source	Safety Data Sheet Supplier

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

No decomposition if stored and applied as directed.

**10.2. Chemical stability**

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Protect from light.

**10.3. Possibility of hazardous reactions**

Possible incompatibility with materials listed under section 10.5.

**10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat.

**10.5. Incompatible materials**Risk of explosion with: Alkaline metals, Aluminium, NO<sub>2</sub>, Reaction with nitric acid, oxygen, Nitrogen oxides (NO<sub>x</sub>), Potassium permanganate, Sodium hypochlorite, halocarbons**10.6. Hazardous decomposition products**

In the event of fire the following can be released: Hydrogen chloride (HCl), Phosgene

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity (Components)****dichloromethane**

Species	rat	
LD50	> 2000	mg/kg
Method	OECD 401	

**dichloromethane**

Species	Human	
LDLo	357	mg/kg
Source	RTECS	

**dichloromethane**

Species	Rats (male/female)	
NOAEL	6	mg/kg
Duration of exposure	104 Weeks	

**Acute dermal toxicity (Components)****dichloromethane**

Species	rat	
LD50	> 2000	mg/kg
Method	OECD 402	

**Acute inhalative toxicity (Components)****dichloromethane**

Species	rat	
LC50	60.14	mg/l
Duration of exposure	4 h	
Administration/Form	Vapors	
Source	Literature value	

**dichloromethane**

Species	Rats (male/female)	
NOAEL	0.71	mg/l
Duration of exposure	104 Weeks	
Method	OECD 453	

**dichloromethane**

Species	mouse	
LC50	86	mg/l
Administration/Form	Vapors	

**Skin corrosion/irritation (Components)**

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**dichloromethane**

Species	rabbit
evaluation	irritant
Method	OECD 404
Remarks	Longer or repeated exposure with the product may cause dermatitis

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

Species	rabbit
evaluation	irritant
Remarks	Risk of serious damage to eyes.

**Sensitization (Components)****dichloromethane**

Species	mouse
evaluation	non-sensitizing
Method	OECD 429

**Mutagenicity (Components)****dichloromethane**

Species	mouse
Remarks	negative

**dichloromethane**

Species	mammal, species unspecified
evaluation	Information on genotoxicity in vitro available.
Method	OECD 473
Remarks	positive

**dichloromethane**

Species	Salmonella typhimurium
evaluation	Information on genotoxicity in vitro available.
Method	OECD 471
Remarks	positive

**Reproduction toxicity (Components)****dichloromethane**

Remarks	Not applicable
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**Carcinogenicity (Components)****dichloromethane**

Remarks	Suspicion about carcinogenic effect.
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**Specific Target Organ Toxicity (STOT) (Components)****dichloromethane****Single exposure**

evaluation	May cause damage to organs. Route of exposure inhalative Organs: Nervous system
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**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.

**Experience in practice**

After resorption of toxic quantities: disorders of the central nervous system. Liver damage is possible.  
Kidney damage is possible. Heart damage is possible.

**Other information**

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Observe the usual precautions for handling chemicals.

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

Species	Fathead minnow ( <i>Pimephales promelas</i> )		
LC50	193		mg/l
Duration of exposure	96	h	

**Daphnia toxicity (Components)****dichloromethane**

Species	Daphnia magna		
LC50	27		mg/l
Duration of exposure	48	h	

**Algae toxicity (Components)****dichloromethane**

Species	Raphidocelis subcapitata		
IC50	> 662		mg/l
Duration of exposure	96	h	
Method	OECD 201		

**Bacteria toxicity (Components)****dichloromethane**

Species	activated sludge		
EC50	2590		mg/l
Duration of exposure	40	min	
Method	OECD 209		

**12.2. Persistence and degradability****Biodegradability (Components)****dichloromethane**

Value	68		%
Duration of test	28	d	
Method	OECD 301D		
Remarks	The product is readily biodegradable according to OECD criteria.		

**12.3. Bioaccumulative potential****Partition coefficient n-octanol/water (log value)**

log Pow	1.25
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**Octanol/water partition coefficient (log Pow) (Components)****dichloromethane**

log Pow	1.25
Method	experimental

**12.4. Mobility in soil****Mobility in soil (Components)****dichloromethane**

Mobile in soils	
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**12.5. Results of PBT and vPvB assessment****Results of PBT and vPvB assessment \*\*\***

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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 soil, ground water, water bodies or sewage system.




**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

**Disposal recommendations for packaging**

Dispose of as unused product.

**SECTION 14: Transport information**

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
<b>14.1. UN number</b>	1593	1593	1593
<b>14.2. UN proper shipping name</b>	DICHLOROMETHANE	DICHLOROMETHANE	DICHLOROMETHANE
<b>14.3. Transport hazard class(es)</b>	6.1	6.1	6.1
Label			
<b>14.4. Packing group</b>	III	III	III
Limited Quantity	5 l		
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

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**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**

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.

**CLP categories listed in Chapter 3**

Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Eye irritation, Category 2
Skin Irrit. 2	Skin irritation, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

**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.