

Trade name: Methyleni chloridum

Substance number: 154800

Version: 4 / CH

Date revised: 13.06.2023

Replaces Version: 3 / CH

Print date: 13.06.23

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

### **1.1. Product identifier**

Methyleni chloridum

Item No. 15480000

### **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.

##### **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

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P305+P351+P338 comfortable for breathing.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF expoed 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 \*\*\*****Chemical characterization**

substances

**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**

Take affected person to fresh air. Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid

**After inhalation**

Ensure supply of fresh air. If necessary, give oxygen. Summon a doctor immediately. If the patient is likely to become unconscious, place and transport in stable sideways position.

**After skin contact**

Wash off immediately with soap and water and rinse well. Consult a doctor if skin irritation persists.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical advice immediately.

**After ingestion**

Rinse out mouth and give plenty of water to drink. Administer activated charcoal and sodium sulfate. Do not induce vomiting. Summon a doctor immediately.

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

Irritation of mucosa, Headache, Cardiovascular disturbance, Dizziness, Unconsciousness, Intoxication, Narcosis

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

Do not administer any preparations of the adrenaline-ephedrine group.

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**Hints for the physician / hazards**

Risk of pulmonary oedema

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

Extinguishing measures to suit surroundings, Carbon dioxide, Dry powder, Water spray jet, Extinguish greater fire with water spray or alcohol-resistant foam.

**Non suitable extinguishing media**

Full water jet

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

In the event of fire the following can be released: Carbon monoxide (CO); Hydrogen chloride (HCl); Phosgene

**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 away unprotected persons.

**6.2. Environmental precautions**

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater.

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

When picked up, treat material as prescribed under Section 13 "Disposal". Ensure adequate ventilation.

**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**

Provide good ventilation of working area (local exhaust ventilation if necessary). Provide good room ventilation even at ground level (vapours are heavier than air). Handle and open container with care. Avoid formation of aerosols. Keep limited supplies at workplace.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.

**7.2. Conditions for safe storage, including any incompatibilities****Recommended storage temperature**

Value 15 - 25 °C

**Requirements for storage rooms and vessels**

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Provide solvent-resistant and impermeable floor. Use steel or stainless steel containers. Use containers made of Polyethylene. Use teflon-coated containers and pinings. Use viton-coated containers and pinings. Do not use aluminium containers.

**Hints on storage assembly**

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

**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

**Further information on storage conditions**

Keep container tightly closed. Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from light. 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 \*\*\*****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; Kopfweh; 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	

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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	
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

Keep away from food-stuffs, beverages and feed-stocks. Wash hands before breaks and after work. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. At work do not eat, drink, smoke or take drugs. It is essential for pregnant women to avoid inhaling the product and not to let it come in contact with the skin.

### Respiratory protection

Breathing apparatus in the event of aerosol or mist formation. Breathing apparatus in the event of vapours. Gas filterAX. EN 141

### Hand protection \*\*\*

Gloves (solvent-resistant)	
Appropriate Material	Fluoro carbon rubber - FKM
Material thickness	0.4 mm
Appropriate Material	Polyethylene

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Material thickness	0.4	mm
Breakthrough time	8	h

**Eye protection**

Tightly fitting safety glasses

**Body protection**

Solvent-resistant protective clothing

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	liquid		
<b>Colour</b>	colourless		
<b>Odour</b>	sweetish		
<b>Freezing point</b>			
Value	-97		°C
Pressure	1013	hPa	
<b>Boiling point or initial boiling point and boiling range</b>			
Value	40		°C
<b>Upper and lower explosive limits</b>			
Lower explosion limit	13		%(V)
Upper explosion limit	22		%(V)
<b>Flash point</b>			
Value			°C
Remarks	Not applicable		
<b>Ignition temperature</b>			
Value	605		°C
<b>Decomposition temperature</b>			
Value	> 120		°C
<b>pH value</b>			
Remarks	Not applicable		
<b>Viscosity</b>			
<b>dynamic</b>			
Value	0.42		mPa.s
Temperature	25	°C	
<b>kinematic</b>			
Value	0.31		mm <sup>2</sup> /s
Temperature	25	°C	
<b>Solubility(ies)</b>			
Ethanol			
Remarks	miscible		
<b>Vapour pressure</b>			
Value	476		hPa
Temperature	20	°C	
Value	584		hPa
Temperature	25	°C	
Value	709		hPa
Temperature	30	°C	
<b>Density and/or relative density</b>			
Value	1.33		g/cm <sup>3</sup>

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Temperature	20	°C
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**9.2. Other information****Solubility in water**

Value	20	g/l
Temperature	20	°C

**Explosive properties**

evaluation	Not applicable
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**Oxidising properties**

evaluation	None known
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**Other information**

Forms explosive mixture with air are possible.

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

No decomposition if stored and applied as directed.

**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.

**10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat.

**10.5. Incompatible materials**

Aluminium, Zinc, Oxidising agents, strong acids, Strong bases

**10.6. Hazardous decomposition products**

Hydrogen chloride (HCl), Chlorine, Carbon monoxide, 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	

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**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)****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		

**Subacute, subchronic, chronic toxicity**

Remarks	May cause cancer.
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**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**



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Remarks Not applicable

**Carcinogenicity (Components)****dichloromethane**

Remarks Suspicion about carcinogenic effect.

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

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

**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**

Solvents may cause some of the above effects by absorption through the skin. Causes a numb feeling.

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

Species Fathead minnow (*Pimephales promelas*)  
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 *Pseudokirchneriella 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.

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### 12.3. Bioaccumulative potential

#### 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

### 12.5. Results of PBT and vPvB assessment

#### 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

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.
EWC waste code	Should not be released into the sanitary sewer system.

Disposal in compliance with local and national regulations.

#### Disposal recommendations for packaging

Disposal in compliance with local and national regulations.

## SECTION 14: Transport information

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

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.