

Trade name: Methyleni chloridum

Substance number: 155655

Version: 4 / CH

Date revised: 03.08.2023

Replaces Version: 3 / CH

Print date: 03.08.23

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

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 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

P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
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**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.

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

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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

Further information on storage conditions

Keep container tightly closed.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

dichloromethane

List	SUVA			
Type	MAK			
Value	177	mg/m ³	50	ppm(V)
Short term exposure limit	706	mg/m ³	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 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	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 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	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

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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

necessary

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

Value	40		°C
Pressure	1013	hPa	

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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

Viscosity**dynamic**

Value 0.42 mPa.s

Temperature 25 °C

Partition coefficient n-octanol/water (log value)

log Pow 1.25

Vapour pressure

Value 584 hPa

Temperature 25 °C

Density and/or relative densityValue 1.33 g/cm³

Temperature 20 °C

9.2. Other information**Evaporation rate**

Value 1.9

Solubility in water

Value 13.2 g/l

Temperature 25 °C

Auto-ignition temperature

Value 605 °C

Explosive properties

evaluation No data available

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

Protect from light.

10.3. Possibility of hazardous reactions

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Possible incompatibility with materials listed under section 10.5.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

10.5. Incompatible materialsRisk of explosion with: Alkaline metals, Aluminium, NO₂, Reaction with nitric acid, oxygen, Nitrogen oxides (NO_x), 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)**dichloromethane**

Species	rabbit		
evaluation	irritant		

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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

Observe the usual precautions for handling chemicals.

SECTION 12: Ecological information

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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	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.		

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**

The Substance does not meet PBT-criteria.
This substance does not meet the vPvB-criteria.

Results of PBT and vPvB assessment (Ingredients)

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dichloromethane

The Substance doesn't meets PBT/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		
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 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.