

Trade name: Methyleni chloridum

Substance number: 155650

Version: 5 / CH

Date revised: 27.04.2021

Replaces Version: 4 / CH

Print date: 27.04.21

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

1.1. Product identifier

Methyleni chloridum

Item No. 15565000

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 ***

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 expoed or concerned: Get medicinal advice/attention.

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

contains *** dichloromethane

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**

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

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

After ingestion

Careful when inducomg 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****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

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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.

SECTION 8: Exposure controls/personal protection ***

8.1. Control parameters

Exposure limit values ***

dichloromethane

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List	SUVA			
Type	MAK			
Value	177	mg/m ³	50	ppm(V)
Short term exposure limit	353	mg/m ³	100	ppm(V)
Skin resorption / sensibilisation: H; Remarks: H C1B B; ZNS; DFG, HSE, NIOSH, kein erhöhtes Krebsrisiko bei Einhalten des MAK-Werts				

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

Form	liquid		
Colour	colourless		
Odour	ether-like		
pH value ***			
Remarks	No data available		
Melting point			
Value	-95		°C
Pressure	1013	hPa	
Initial boiling point and boiling range			
Value	40		°C
Pressure	1013	hPa	
Flash point			
Value			°C
Method	closed cup		
Remarks	Not applicable		
Evaporation rate			
Value	1.9		
Flammability (solid, gas)			
Not applicable			
Upper/lower flammability or explosive limits			
Lower explosion limit	13		%(V)
Upper explosion limit	22		%(V)
Vapour pressure			
Value	584		hPa

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Temperature 25 °C

DensityValue 1.33 g/cm³

Temperature 20 °C

Solubility in water

Value 13.2 g/l

Temperature 25 °C

Partition coefficient: n-octanol/water

log Pow 1.25

Temperature 20 °C

Ignition temperature

Value 605 °C

Method DIN 51794

Auto-ignition temperature

Value 605 °C

Viscosity**dynamic**

Value 0.42 mPa.s

Temperature 25 °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

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 toxicological effects****Acute oral toxicity (Components)****dichloromethane**

Species rat

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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

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

Mutagenicity (Components)**dichloromethane**

Species mouse
Remarks negative

dichloromethane

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

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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

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

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**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

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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 Pow	1.25
Temperature	20 °C

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

Evaluation of persistence and bioaccumulation potential (Components)

dichloromethane

The Substance doesn't meets PBT/vPvB-criteria

12.6. 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

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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.