

Trade name: Chlorali hydras

Substance number: 062688

Version: 3 / CH

Date revised: 01.12.2020

Replaces Version: 2 / CH

Print date: 01.12.20

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

1.1. Product identifier

Chlorali hydras

Item No. 06268800

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

Use of the substance/preparation

Manufacture of pharmaceutical products, Active pharmaceutical substance

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)

Acute Tox. 3 H301

Skin Irrit. 2 H315

Eye Irrit. 2 H319

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

H301

Toxic if swallowed.

H315

Causes skin irritation.

H319

Causes serious eye irritation.

Precautionary statements ***

P264.1

Wash hands thoroughly after handling.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P330 Rinse mouth.
 P501.3 Disposal in compliance with local and national regulations.

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

contains *** chloral hydrate

SECTION 3: Composition/information on ingredients *****Hazardous ingredients *******chloral hydrate**

CAS No.	302-17-0	
EINECS no.	206-117-5	
Registration no.	01-2120117773-57-0000	
Concentration	>= 80	%
Classification (Regulation (EC) No. 1272/2008)		
	Acute Tox. 3	H301
	Skin Irrit. 2	H315
	Eye Irrit. 2	H319

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

Adhere to personal protective measures when giving first aid

After inhalation

Remove the casualty into fresh air and keep him calm. Keep warm and at rest. If necessary, give oxygen. Summon a doctor immediately.

After skin contact

Remove contaminated, soaked clothing immediately and dispose of safely. 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.). Summon a doctor immediately.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Induce vomiting, seek medical advice. If individual is drowsy or unconscious place in recovery position (on left side, with head down).

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

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas. Water, Foam, Carbon dioxide, Sand, Dry chemical extinguisher

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: Hydrogen chloride (HCl); Phosgene

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5.3. Advice for firefighters**Special protective equipment for fire-fighting**

Use self-contained breathing apparatus. Wear full protective suit.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Suppress vapours with water spray jet.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Use personal protective clothing. Respiratory protection

6.2. Environmental precautions

Do not allow to enter drains or waterways.

6.3. Methods and material for containment and cleaning up

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

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Do not inhale substance. Avoid contact with skin and eyes. Use breathing apparatus when transferring large quantities without exhaust ventilation facilities. Avoid dust formation.

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

Value < 30 °C

Requirements for storage rooms and vessels

Keep tightly closed in a dry and cool place. Unsuitable material: plastic materials. Unsuitable material: iron.

Storage classes

Storage class according to TRGS 510	6.1B	Non-combustible substances of acute toxicity, categories 1 and 2 / very toxic hazardous substances
Storage category (Switzerland)	6.1	Toxic substances

SECTION 8: Exposure controls/personal protection *****8.2. Exposure controls****Exposure controls**

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

General protective and hygiene measures

Avoid contact with skin and eyes. Take off immediately all contaminated clothing. Wash hands and face before breaks and after work. Preventative skin protection. Do not eat or drink during work time. Keep away from sources of ignition.

Respiratory protection

necessary; Multi-purpose filter ABEK

Hand protection

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated

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location.

Reference substance	chloral hydrate
Appropriate Material	Butyl rubber - Butyl
Material thickness	> 0.11 mm

Protective gloves

Reference substance	chloral hydrate
Appropriate Material	nitrile rubber - NBR
Material thickness	> 0.11 mm

Eye protection

Safety glasses with side protection shield

Body protection

Protective clothing

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

Form	solid
Colour	white
Odour	characteristic

pH value

Value	3.5	to	5.5
Concentration/H ₂ O	100	g/l	

Melting point

Value	53	°C
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Initial boiling point and boiling range

Value	97	°C
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Flash point

Value	°C
Remarks	Not applicable

Upper/lower flammability or explosive limits

Remarks	Not applicable
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Vapour pressure

Value	13	hPa
Temperature	20	°C

Density

Value	1.908	g/cm ³
Temperature	20	°C

Solubility in water

Value	6600	g/l
Temperature	20	°C

Partition coefficient: n-octanol/water

Reference substance	chloral hydrate
log Pow	0.99

Ignition temperature

Remarks	Not applicable
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Decomposition temperature

Value	> 40	to	97	°C
Remarks	Slow decomposition possible.			
Value	97	°C		

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Remarks	Loss of water of crystallization on heating
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Viscosity

Temperature	20	°C
Remarks	Not applicable	

9.2. Other information**Bulk density**

Value	1100	kg/m ³
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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

No decomposition if stored and applied as directed.

10.4. Conditions to avoid

Protect from light and atmospheric moisture. Heat

10.5. Incompatible materials

Compounds of iron (III)

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information *****11.1. Information on toxicological effects****Acute oral toxicity**

ATE	4	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute oral toxicity (Components)**chloral hydrate**

Species	rat	
LD50	479	mg/kg

chloral hydrate

Species	Human	
LDLo	4	mg/kg

Acute dermal toxicity (Components)**chloral hydrate**

Species	rat	
LD50	3030	mg/kg

Skin corrosion/irritation (Components)**chloral hydrate**

evaluation	strongly irritant
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Serious eye damage/irritation (Components)**chloral hydrate**

evaluation	strongly irritant
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Subacute, subchronic, chronic toxicity (Components)**chloral hydrate**

Route of exposure	inhalative
Species	Human
Remarks	Inhalation may lead to the formation of oedemas in the respiratory tract.

chloral hydrate

Route of exposure	inhalative
Species	Human

chloral hydrate

Route of exposure	oral
Species	Human
Remarks	Strong corrosive action on the skin and mucous membrane.

Experience in practice

Irritates the mucous membrane. Inhalations of vapours in higher concentration may lead to irritation of eyes, nose and respiratory tract. Danger of serious damage to health by prolonged exposure. Causes disorders of the central nervous system and can cause headache, respiratory difficulties or unconsciousness.

SECTION 12: Ecological information *****12.1. Toxicity****Fish toxicity**

Reference substance	chloral hydrate
Species	golden orfe (<i>Leuciscus idus</i>)
LC50	1720 mg/l
Duration of exposure	48 h
Source	Literature value

Fish toxicity (Components)**chloral hydrate**

Species	golden orfe (<i>Leuciscus idus</i>)
LC50	1720 mg/l
Duration of exposure	48 h

Daphnia toxicity

Reference substance	chloral hydrate
Species	<i>Daphnia magna</i>
EC50	510 mg/l
Duration of exposure	24 h
Source	Literature value

Daphnia toxicity (Components)**chloral hydrate**

Species	<i>Daphnia magna</i>
LC50	510 mg/l
Duration of exposure	24 h

Algae toxicity

Reference substance	chloral hydrate
Species	<i>Scenedesmus quadricauda</i>
EC50	2.8 mg/l
Duration of exposure	7 d
Source	Literature value

Algae toxicity (Components)**chloral hydrate**

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Species	Scenedesmus quadricauda	
IC5	2.8	mg/l
Duration of exposure	7	d

Bacteria toxicity

Reference substance	chloral hydrate	
Species	Pseudomonas putida	
EC5	1.6	mg/l
Duration of exposure	16	h
Source	Literature value	

Bacteria toxicity (Components)**chloral hydrate**

Species	Pseudomonas putida	
EC5	1.6	mg/l
Duration of exposure	16	h

12.2. Persistence and degradability**Biodegradability**

Reference substance	chloral hydrate
evaluation	not readily degradable
Source	Safety Data Sheet Supplier

12.3. Bioaccumulative potential**Partition coefficient: n-octanol/water**

Reference substance	chloral hydrate
log Pow	0.99

Octanol/water partition coefficient (log Pow) (Components)**chloral hydrate**

log Pow	0.99
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12.4. Mobility in soil**General information**

No data available

12.5. Results of PBT and vPvB assessment**General information**

Not applicable

Evaluation of persistence and bioaccumulation potential (Components)**chloral hydrate**

The product contains no PBT or vPvB substances.

12.6. Other adverse effects**General information**

Do not allow to enter drains or water courses

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.

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SECTION 14: Transport information ***

	Land transport ADR/RID ***	Marine transport IMDG/GGVSee ***	Air transport ICAO/IATA ***
Tunnel restriction code	E		
14.1. UN number	2811	2811	2811
14.2. UN proper shipping name	TOXIC SOLID, ORGANIC, N.O.S. (chloral hydrate)	TOXIC SOLID, ORGANIC, N.O.S. (chloral hydrate)	TOXIC SOLID, ORGANIC, N.O.S. (chloral hydrate)
14.3. Transport hazard class(es)	6.1	6.1	6.1
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 kg		
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 not been carried out.

SECTION 16: Other information**Hazard statements listed in Chapter 3**

H301 Toxic if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

CLP categories listed in Chapter 3

Acute Tox. 3 Acute toxicity, Category 3
Eye Irrit. 2 Eye irritation, Category 2
Skin Irrit. 2 Skin irritation, Category 2

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.

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