

Trade name: Chinini hydrochloridum

Substance number: 062600

Version: 4 / CH

Date revised: 24.11.2025

Replaces Version: 3 / CH

Print date: 24.11.25

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Chinini hydrochloridum

Item No. 06260000

Substance / product identification

CAS-No. 6119-47-7

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/preparation**

Manufacture of pharmaceutical products, Chemical for synthesis, Chemical, food additive

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. 4 H302

Skin Sens. 1 H317

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 ***

H302

Harmful if swallowed.

H317

May cause an allergic skin reaction.

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Precautionary statements ***

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264.1	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P330	Rinse mouth.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P501.3	Disposal in compliance with local and national regulations.

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

contains *** Quinine hydrochloride dihydrate

Reduced labeling (<= 125 ml)**Hazard pictograms *******Signal word *****

Warning

Hazard statements ***

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.

Precautionary statements ***

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264.1	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P330	Rinse mouth.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P501.3	Disposal in compliance with local and national regulations.

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	396.9	g/mol
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Hazardous ingredients *****Quinine hydrochloride dihydrate**

CAS No.	6119-47-7	
EINECS no.	612-097-2	
Concentration	>= 50	%
Classification (Regulation (EC) No. 1272/2008)		
	Acute Tox. 4	H302
	Skin Sens. 1	H317

ATE	oral	620	mg/kg
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SECTION 4: First aid measures

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4.1. Description of first aid measures

General information

Take off contaminated clothing and shoes immediately.

After inhalation

Ensure supply of fresh air. Summon a doctor immediately.

After skin contact

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

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. By continuous complaints consult a physician.

After ingestion

Rinse out mouth and give plenty of water to drink. Summon a doctor immediately.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water, Carbon dioxide, Foam, Dry powder

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO); Nitrogen oxides (NO_x); Hydrochloric acid

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus.

Other information

Do not discharge into surface waters/groundwater.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Wear protective equipment

6.2. Environmental precautions

Do not allow to enter drains or waterways.

6.3. Methods and material for containment and cleaning up

Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Avoid raising dust.

SECTION 7: Handling and storage ***

7.1. Precautions for safe handling

Advice on safe handling

Avoid dust formation. Avoid contact with skin, eyes and clothing. Wear protective equipment. Provide good ventilation of working area (local exhaust ventilation if necessary).

Advice on protection against fire and explosion

Dust can form an explosive mixture with air. Keep away from sources of ignition. Take action to prevent static discharges.

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7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in original packaging. Keep tightly closed in a dry and cool place. Protect from exposure to light.

Hints on storage assembly

Do not store together with foodstuffs. Do not store together with animal feedstocks.

Storage classes

Storage class according to TRGS 510

11

Combustible solids

Storage category (Switzerland)

11/13

Other solid hazardous substances with classification/labelling hazardous

Further information on storage conditions

Protect from direct sunlight. Protect from atmospheric moisture and water.

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

Provide adequate ventilation. Do not breathe dust.

Respiratory protection

Breathing apparatus in the event of aerosol. Dust mask; Particle filter P2

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 location.

Appropriate Material nitrile rubber - NBR

Material thickness 0.4 mm

Hand protection must comply with EN 374.

Appropriate Material Butyl rubber - Butyl

Material thickness 0.4 mm

Appropriate Material Natural Latex

Material thickness 0.4 mm

Hand protection must comply with EN 374.

Eye protection

Safety glasses with side protection shield; Safety goggles; Eye protection must comply with EN 166.

Body protection

Protective clothing; Personal protective clothing must comply with the relevant CEN standards.

Environmental exposure controls

Do not allow to enter drains or water courses.

SECTION 9: Physical and chemical properties ***

9.1. Information on basic physical and chemical properties

Physical state solid

Colour white

Odour odourless

Physical state Powder

Melting point

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Value	123	°C
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Boiling point or initial boiling point and boiling range

Remarks	No data available
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Flash point

Remarks	Not applicable
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Auto-ignition temperature

Value	400	°C
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pH value

Value	6.0	to	6.8
Concentration/H ₂ O	1	g/l	

Vapour pressure

Remarks	No data available
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Density and/or relative density

Remarks	No data available
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9.2. Other information**Solubility in water**

Value	62.5	g/l
Temperature	25	°C

Bulk density

Value	310	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 direct sunlight. To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

Oxidising agents

10.6. Hazardous decomposition productsIn the event of fire the following can be released: Carbon monoxide and carbon dioxide, nitrous oxides (NO_x)**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

ATE	620	mg/kg
Method	calculated value according to GHS (e.g see UN GHS)	
Remarks	The classification criteria are met.	

Acute oral toxicity (Components)

Quinine hydrochloride dihydrate

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Species	rat		
LD50		620	mg/kg

Quinine hydrochloride dihydrate

Species	mouse		
LD50		1160	mg/kg

Acute dermal toxicity

Remarks	Based on available data, the classification criteria are not met.
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Acute inhalational toxicity

Remarks	Based on available data, the classification criteria are not met.
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Skin corrosion/irritation

Remarks	Based on available data, the classification criteria are not met.
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Serious eye damage/irritation

Remarks	Based on available data, the classification criteria are not met.
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Serious eye damage/irritation (Components)

Quinine hydrochloride dihydrate	
evaluation	slightly irritant

Sensitization

evaluation	May cause sensitization by skin contact.
Remarks	The classification criteria are met.

Sensitization (Components)

Quinine hydrochloride dihydrate	
Remarks	May cause allergic skin reactions.

Subacute, subchronic, chronic toxicity

Subacute toxicity	
Chronic toxicity	

Mutagenicity

Remarks	Based on available data, the classification criteria are not met.
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Reproductive toxicity

Remarks	Based on available data, the classification criteria are not met.
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Carcinogenicity

Remarks	Based on available data, the classification criteria are not met.
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Specific Target Organ Toxicity (STOT)

Single exposure	
Remarks	Based on available data, the classification criteria are not met.

Repeated exposure	
Remarks	Based on available data, the classification criteria are not met.

Aspiration hazard

Remarks	Based on available data, the classification criteria are not met.
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11.2. Information on other hazards**Endocrine disrupting properties with respect to humans**

Remarks	This substance does not have endocrine disrupting properties with respect to humans.
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Experience in practice

Remarks	headache. disorders of the central nervous system. diarrhea. May cause nausea/ vomiting/ asthma. May cause sensitization by inhalation and skin contact.
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Other information

Remarks	After swallowing: feeling of sickness, vomiting, coma.
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Observe the usual precautions for handling chemicals.

SECTION 12: Ecological information ***

12.1. Toxicity

Fish toxicity (Components)

Quinine hydrochloride dihydrate

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)		
LC50	>	100	mg/l
Duration of exposure	48	h	

Daphnia toxicity (Components)

Quinine hydrochloride dihydrate

Species	Daphnia pulex		
EC50		28.3	mg/l
Duration of exposure	24	h	

12.2. Persistence and degradability

Biodegradability (Components)

Quinine hydrochloride dihydrate

Value	86.3	%
Duration of test	28	d
evaluation	Readily biodegradable	
Method	OECD 301B / ISO 9439 / EEC 84/449 C5	
Source	Chinin	

12.3. Bioaccumulative potential

Octanol/water partition coefficient (log Pow) (Components)

Quinine hydrochloride dihydrate

log Pow	1.78
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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.

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

Ecological data are not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

EWC waste code	07 01	wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
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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
14.1. UN number or ID number	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.
14.5. Environmental hazards	-		

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 1

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

Other information ***

The product does not contain substances according to Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH) with a content of $\geq 0.1\%$ w/w.

SECTION 16: Other information**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4

H302

Calculation method

Skin Sens. 1

H317

Calculation method

Hazard statements listed in Chapter 2/3

H302

Harmful if swallowed.

H317

May cause an allergic skin reaction.

CLP categories listed in Chapter 2/3

Acute Tox. 4

Acute toxicity, Category 4

Skin Sens. 1

Skin sensitization, Category 1

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.