

Trade name: Morphini hydrochloridum trihydricum

Substance number: 055000

Version: 5 / CH

Date revised: 20.08.2024

Replaces Version: 4 / CH

Print date: 20.08.24

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

### **1.1. Product identifier**

Morphini hydrochloridum trihydricum

Item No. 05500000

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

#### **Use of the substance/preparation**

Narcotic, analgesic, opioid

### **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
Acute Tox. 3	H331
Resp. Sens. 1	H334
Skin Sens. 1	H317
Repr. 2	H361fd
Lact.	H362

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 \*\*\***

H302	Harmful if swallowed.
H331	Toxic if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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H317 May cause an allergic skin reaction.  
 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.  
 H362 May cause harm to breast-fed children.

**Precautionary statements \*\*\***

P201 Obtain special instructions before use.  
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P263 Avoid contact during pregnancy and while nursing.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P284 [In case of inadequate ventilation] wear respiratory protection.  
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P308+P313 IF exposed or concerned: Get medicinal advice/attention.  
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

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

contains \*\*\* (4R,4aR,7S,7aR,12bS)-3-methyl-2,4,4a,7,7a,13-hexahydro-1H-4,12-methanobenzofuro[3,2-e]isoquinoline-7,9-diol;trihydrate;hydrochloride

**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 375.89

**Hazardous ingredients \*\*\***

**(4R,4aR,7S,7aR,12bS)-3-methyl-2,4,4a,7,7a,13-hexahydro-1H-4,12-methanobenzofuro[3,2-e]isoquinoline-7,9-diol;trihydrate;hydrochloride**

CAS No.	6055-06-7		
EINECS no.	641-595-2		
Registration no.	EXCEMPT		
Concentration	>= 100		%
Classification (Regulation (EC) No. 1272/2008)			
	Acute Tox. 4		H302
	Acute Tox. 3		H331
	Resp. Sens. 1		H334
	Skin Sens. 1		H317
	Repr. 2		H361fd
	Lact.		H362

ATE	oral	335	mg/kg
cATpE	inhalative, Dust/Mist	0.5	mg/l

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

Remove contaminated, soaked clothing immediately and dispose of safely. If you feel unwell, seek medical advice (show the label where possible).

**After inhalation**

Remove the casualty into fresh air and keep him calm. Keep warm and at rest. Irregular breathing/no breathing: artificial respiration. If necessary, give oxygen. Summon a doctor immediately.

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**After skin contact**

Wash off immediately with soap and water and rinse well. Summon a doctor immediately.

**After eye contact**

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

**After ingestion**

Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Never give anything by mouth to an unconscious person. Summon a doctor immediately.

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

Nausea, Vomiting, Shortness of breath, Asthmatic complaints, amentia, Headache, Dizziness

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

Water, Alcohol-resistant foam, Carbon dioxide, Dry chemical extinguisher

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

Take precautionary measures against static charges. Development of toxic gases; Forms explosive mixture with air are possible. In the event of fire the following can be released: Nitrogen oxides (NO<sub>x</sub>); Hydrogen chloride (HCl); The product is combustible.

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

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

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

Remove persons to safety. Keep people away and stay on the upwind side. Avoid dust formation. Refer to protective measures listed in Sections 7 and 8.

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

Suitable industrial vacuum cleaners or central exhaust ventilation equipment must be used for taking up dust (with a suitable filter to prevent particles blowing back into the atmosphere e.g. Type H(BS5415)). Send in suitable containers for recovery or disposal. Containers in which spilt substance has been collected must be adequately labelled. After cleaning, flush away traces with water. 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**

Take action to prevent static discharges. Do not inhale dust. Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid the formation and deposition of dust.

**Advice on protection against fire and explosion**

Take action to prevent static discharges. Earthing necessary during loading operations. Avoid dust formation. The product is capable of dust explosions.

**7.2. Conditions for safe storage, including any incompatibilities****Storage classes**

Storage class according to TRGS 510

6.1D

Non-combustible substances of acute toxicity, category 3 / hazardous

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Storage category (Switzerland)

6.1

substances that are toxic or produce  
chronic effects  
Toxic substances

**Further information on storage conditions**

Protect from light. Keep container tightly closed and dry in a cool, 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****8.2. Exposure controls****Exposure controls**

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

**General protective and hygiene measures**

Wash thoroughly after work. Store work clothing separately. At work do not eat, drink, smoke or take drugs. General industrial hygiene practice. Observe the usual precautions for handling chemicals. Wash contaminated clothing before reuse.

**Respiratory protection**

necessary; Self-contained breathing apparatus.

**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.

Hand protection must comply with EN 374.

**Eye protection**

Safety glasses with side protection shield

**Body protection**

Protective clothing; Clothing as usual in the chemical industry.

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

<b>Physical state</b>	solid
<b>Colour</b>	white
<b>Odour</b>	odourless
<b>Physical state</b>	Crystalline powder
<b>Melting point</b>	
Value	appr. 200 °C
<b>Boiling point or initial boiling point and boiling range</b>	
Remarks	No data available
<b>Flash point</b>	
Value	°C
Remarks	Not applicable
<b>pH value</b>	
Remarks	Not applicable
<b>Partition coefficient n-octanol/water (log value)</b>	
Remarks	No data available
<b>Vapour pressure</b>	
Remarks	No data available

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**9.2. Other information****Solubility in water**

Value	42	g/l
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**Minimum ignition energy**

Minimum ignition energy	50	to	100	MJ
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**SECTION 10: Stability and reactivity****10.1. Reactivity**

No dangerous reactions known.

**10.2. Chemical stability**

Stable under recommended storage and handling conditions (see section 7).

**10.3. Possibility of hazardous reactions**

No decomposition if stored and applied as directed.

**10.4. Conditions to avoid**

Avoid dust formation.

**10.5. Incompatible materials**

Oxidising agents

**10.6. Hazardous decomposition products**

None under normal use.

**Other information**

chemical stable

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

ATE	335	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

**Acute oral toxicity (Components)****(4R,4aR,7S,7aR,12bS)-3-methyl-2,4,4a,7,7a,13-hexahydro-1H-4,12-methanobenzofuro[3,2-e]isoquinoline-7,9-diol;trihydrate;hydrochloride**

Species	rat	
LD50	335	mg/kg
Remarks	Possible risk of congenital malformation in the fetus.	

**Acute dermal toxicity (Components)****(4R,4aR,7S,7aR,12bS)-3-methyl-2,4,4a,7,7a,13-hexahydro-1H-4,12-methanobenzofuro[3,2-e]isoquinoline-7,9-diol;trihydrate;hydrochloride**

Remarks Possible risk of congenital malformation in the fetus.

**Acute inhalational toxicity**

ATE	0.5	mg/l
Administration/Form	Dust/Mist	
Method	calculated value (Regulation (EC) No. 1272/2008)	

**Acute inhalative toxicity (Components)****(4R,4aR,7S,7aR,12bS)-3-methyl-2,4,4a,7,7a,13-hexahydro-1H-4,12-methanobenzofuro[3,2-e]isoquinoline-7,9-diol;trihydrate;hydrochloride**

Remarks Irritating to respiratory system.

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**(4R,4aR,7S,7aR,12bS)-3-methyl-2,4,4a,7,7a,13-hexahydro-1H-4,12-methanobenzofuro[3,2-e]isoquinoline-7,9-diol;trihydrate;hydrochloride**

Remarks Possible risk of congenital malformation in the fetus.

### Skin corrosion/irritation

Remarks Irritating to skin.

### Skin corrosion/irritation (Components)

**(4R,4aR,7S,7aR,12bS)-3-methyl-2,4,4a,7,7a,13-hexahydro-1H-4,12-methanobenzofuro[3,2-e]isoquinoline-7,9-diol;trihydrate;hydrochloride**

evaluation irritant

### Serious eye damage/irritation

Remarks Irritates the eyes.

### Serious eye damage/irritation (Components)

**(4R,4aR,7S,7aR,12bS)-3-methyl-2,4,4a,7,7a,13-hexahydro-1H-4,12-methanobenzofuro[3,2-e]isoquinoline-7,9-diol;trihydrate;hydrochloride**

Remarks Irritates the eyes.

### Sensitization

Remarks May cause sensitization by inhalation.

Remarks May cause sensitization by skin contact.

### Sensitization (Components)

**(4R,4aR,7S,7aR,12bS)-3-methyl-2,4,4a,7,7a,13-hexahydro-1H-4,12-methanobenzofuro[3,2-e]isoquinoline-7,9-diol;trihydrate;hydrochloride**

Route of exposure dermal  
evaluation May cause allergic skin reactions.

**(4R,4aR,7S,7aR,12bS)-3-methyl-2,4,4a,7,7a,13-hexahydro-1H-4,12-methanobenzofuro[3,2-e]isoquinoline-7,9-diol;trihydrate;hydrochloride**

Route of exposure inhalative  
evaluation May cause allergic reactions of respiratory system.

### Reproductive toxicity

Remarks May cause adverse reproductive effects.

Remarks Possible risk of congenital malformation in the fetus.

### Reproduction toxicity (Components)

**(4R,4aR,7S,7aR,12bS)-3-methyl-2,4,4a,7,7a,13-hexahydro-1H-4,12-methanobenzofuro[3,2-e]isoquinoline-7,9-diol;trihydrate;hydrochloride**

evaluation Suspected of damaging the unborn child.

### Carcinogenicity

Remarks No evidence available on carcinogenicity.

## 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

Possible risk of harm to the unborn child. May lead to drowsiness and unconsciousness. May cause nausea/ vomiting/ asthma. May lead to nausea, headache, drowsiness and dizziness. May cause sensitization by inhalation and skin contact. Irritation

## SECTION 12: Ecological information \*\*\*

### 12.1. Toxicity

#### General information

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Not applicable

**12.2. Persistence and degradability****General information**

Not applicable

**12.3. Bioaccumulative potential****Partition coefficient n-octanol/water (log value)**

Remarks No data available

**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. Warning - substance not yet fully tested.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations for the product**

EWC waste code	07	Wastes from organic chemical processes
EWC waste code	07 05	wastes from the MFSU of pharmaceuticals
EWC waste code	07 05 08*	other still bottoms and reaction residues

Disposal in compliance with local and national regulations.

Do not allow to enter drains or water courses.

**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	1544	1544	1544
14.2. UN proper shipping name	ALKALOID SALTS, SOLID, N.O.S.	ALKALOID SALTS, SOLID, N.O.S.	ALKALOID SALTS, SOLID, N.O.S.
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 3

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

## **SECTION 16: Other information**

### **Hazard statements listed in Chapter 3**

H302 Harmful if swallowed.  
 H317 May cause an allergic skin reaction.  
 H331 Toxic if inhaled.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.  
 H362 May cause harm to breast-fed children.

### **CLP categories listed in Chapter 3**

Acute Tox. 3 Acute toxicity, Category 3  
 Acute Tox. 4 Acute toxicity, Category 4  
 Lact. Reproductive toxicity, Lactation  
 Repr. 2 Reproductive toxicity, Category 2  
 Resp. Sens. 1 Respiratory sensitization, Category 1  
 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.



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