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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 01.09.2021

Version number 1.00

Revision: 31.08.2021

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

· Product identifier

· Trade name: Morphine hydrochloride, API

- · Article number: 4888
- · CAS Number:
- 6055-06-7
- EC number:
- 641-595-2
- \cdot Registration number The substance is exempt from REACH-registration.
- Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture
- Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.
- · Uses advised against No relevant information available.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: CAELO Caesar & Loretz GmbH Herderstr. 31 D-40721 Hilden GERMANY
- Further information obtainable from: E-mail: info@caelo.de Tel.: +49210349940 (during regular opening hours)
 Emergency telephone number: Poison Information Center Bonn Venusberg-Campus 1, 53127 Bonn Tel: +49 (0) 228-192400

2 Hazards identification

· Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H332 Harmful if inhaled.

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

· Label elements

· Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

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Trade name: Morphine hydrochloride, API

· Hazard pictograms



· Signal word Danger

Hazard statements

- H302+H332 Harmful if swallowed or if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H317 May cause an allergic skin reaction.

Precautionary statements

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves.
- P284 [In case of inadequate ventilation] wear respiratory protection.
- P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- · Other hazards

\cdot Results of PBT and vPvB assessment

- · PBT: Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterisation: Substances

· CAS No. Description

6055-06-7 Morphine hydrochloride trihydrate

- Identification number(s)
- EC number: 641-595-2

4 First aid measures

· Description of first aid measures

· General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

• After skin contact:

Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.

• After eye contact: Rinse opened eye for several minutes under running water.



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· After swallowing:

- Rinse mouth with plenty of water. Call a doctor immediately.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Firefighting measures

- · Extinguishing media
- Suitable extinguishing agents: All regular extinguishing media can be used.

Use fire extinguishing methods suitable to surrounding conditions.

- Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- · Advice for firefighters
- Protective equipment: In case of fire wear suitable protective clothes and respiratory protection.
- · Additional information
- Prevent from entering into drains. Fire residues must be disposed in accordance with official regulations.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
- Take up dry. Clean up with water. Dispose contaminated material as waste according to item 13.
- **Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

· Handling:

• **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and explosion protection: No special measures required.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:
- Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Protect from exposure to the light.
- Storage class:

TRHS 510: 6.1 D non-combustible acutely toxic substances or substances with chronic effects

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(Contd. of page 3) · Specific end use(s) No further relevant information available. • Additional information about design of technical facilities: No further data; see item 7. Control parameters · Ingredients with limit values that require monitoring at the workplace: Not required. · Exposure controls Personal protective equipment: · General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. · Respiratory protection: Dust protection mask. · Protection of hands: Protective gloves Material of gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Eye protection: Tightly sealed goggles 9 Physical and chemical properties Information on basic physical and chemical properties General Information · Appearance: Form: Crystalline powder White Colour: · Odour: Odourless · Odour threshold: Not determined. · pH-value: Not applicable. Change in condition 200 °C Melting point/freezing point: Initial boiling point and boiling range: Undetermined. · Flash point: Not applicable. · Flammability (solid, gas): Product is not flammable.

· Decomposition temperature: Not determined.

- Auto-ignition temperature: Not determined.
- Explosive properties: Product does not present an explosion hazard.

8 Exposure controls/personal protection



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· Explosion limits: Lower: Upper:	Not determined. Not determined.
· Vapour pressure:	Not applicable.
 Density: Relative density Vapour density Evaporation rate 	Not determined. Not determined. Not applicable. Not applicable.
 Solubility in / Miscibility with water at 20 °C: 	42 g/l
· Partition coefficient: n-octanol/water:	Not determined.
 Viscosity: Dynamic: Kinematic: 	Not applicable. Not applicable.
• Other information	No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- · Incompatible materials: Strong oxidizing agents
- Hazardous decomposition products:
- Hydrogen chloride (HCI) Irritant gases/vapours

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity
- Harmful if swallowed or if inhaled.
- · LD/LC50 values relevant for classification:
- Oral LD50 335 mg/kg (rat)
- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
- · Additional toxicological information:
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.

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

- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

12 Ecological information

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · **Bioaccumulative potential** No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to local regulations.

14 Transport information

· UN-Number		
· ADR, IMDG, IATA	UN1544	
 UN proper shipping name 		
ADR	1544 ALKALOIDS, SOLID, N.O.S. (Morphine hydrochloride trihydrate)	
·IMDG	ALKALOIDS, SOLID, N.O.S. (Morphine hydrochloride trihydrate)	
	Alkaloids, solid, n.o.s. (Morphine hydrochloride trihydrate)	
 Transport hazard class(es) 		
· ADR, IMDG, IATA		
Class	6.1 Toxic substances.	
· Label	6.1	
· Packing group		
ADR, IMDG, IATA		
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 Environmental hazards: Special precautions for user Transport in bulk according to Annex II Marpol and the IBC Code 	Not applicable. Warning: Toxic substances. of Not applicable.	(Contd. of page 6)
• Transport/Additional information:		
· ADR · Limited quantities (LQ)	5 kg	
 IMDG Limited quantities (LQ) 	5 kg	

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) Not listed
- · REGULATION (EC) No 1907/2006 ANNEX XVII Not listed
- · National regulations:
- Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany)
- TRHS 510: 6.1 D non-combustible acutely toxic substances or substances with chronic effects
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended.

- Reasons for alterations This version replaces all old versions.
- Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity - Category 4 Resp. Sens. 1: Respiratory sensitisation - Category 1 Skin Sens. 1: Skin sensitisation - Category 1 GB -