

Safety Data sheet

According to Directive 1907/2006

3412 COPPER (II) CHLORIDE 2-HYDRATE parenteral u.GMP

Creation Date: 07/08/2018 Revision date: 07/08/2018

1. Identification of the substance/preparation and of the company/undertaking

Identification of the product

Catalogue No: 3412 Product name: COPPER (II) CHLORIDE 2-HYDRATE parenteral u.GMP Use of the substance: Analysis and chemical-pharmaceutical production.

Company/undertaking identification

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2. Hazards identification

Labelling in accordance with directive 1907/2006



R-phrases

22 Harmful if swallowed.

36/37/38 Irritating to eyes, respiratory system and skin.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

29 Do not empty into drains.

37/39 Wear suitable gloves and eye/face protection.

57 Use appropriate container to avoid environmental contamination.

Labelling in accordance with directive 1272/2008





H-phrases

302 Harmful if swallowed.
319 Causes serious eye irritation.
335 May cause respiratory irritation.
315 Causes skin irritation.
410 Very toxic to aquatic life with long lasting effects.

P-phrases

309+311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
305+351 If in eyes: Rinse cautiously with water for several minutes.
338 Remove contact lenses, if present and easy to do. Continue rinsing.
273 Avoid release to the environment.

Signal word : WARNING

HARMFUL; DANGEROUS FOR ENVIRONMENT

R-phrases:

Harmful if swallowed.
Irritating to eyes, respiratory system and skin.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition/information on ingredients

For the full text of the R phrases mentioned in this section, see Section 16.

CAS-No.: 10125-13-0

Molecular Weight: 170,48

Chemical formula: CuCl_2

EC-No.: 231-210-2

R-phrases 22; 36/37/38; 50/53

For more information about the R-Phrases text you can consult the paragraph 16

4. First aid measures

After inhalation:

Fresh air

After skin contact:

Rinse with abundant water (or have a shower)

Get rid of the contaminated clothes

After eye contact:

Rinse with abundant water, keeping eyelids open (at least 10 min)

Call the ophthalmologist

After swallowing:

Drink lots of water

Call the doctor

5. Fire-fighting measures

Suitable extinguishing media:

Adapt the materials of the surroundings

Special risks:

Fireproof

Ambient fire may liberate hazardous vapours

The following may develop in event of fire: hydrochloric acid

Special protective equipment for fire fighting:

Remain in the risk area only if provided with independent artificial respiratory systems.

In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

Other information:

Precipitate emergent steam with water

Avoid the penetration of the extinction water in superficial or subterranean aquifers.

6. Accidental release measures

Person-related precautionary measures:

Avoid contact with the substance

Avoid dust formation

Do not inhale dust

Ventilation in closed spaces

Procedures for cleaning/absorption:

Dry cleaning. Proceed to the elimination of any waste.

Rinse.

To avoid the inert dust formation

Environmental protection measures:

Do not send it to the sewerage system

7. Handling and storage

Handling: Without other exigencies

Storage:

Well closed

Dry place.

Storage temperature: without limits

8. Exposure controls/personal protection

Exposure limit control

TLV-TWA: 1 mg/m³ (Cu)

Personal protective equipment:

Respiratory protection:

Necessary respiratory protection in the presence of dust

Hand protection:

Needed

Protection gloves:

Nitrile rubber

Eye protection:

Needed

Other protective equipment:

Change immediately contaminated clothes

Recommendable preventive protection of the skin

Wash hands when work is finished

Fulfill the commitments under local environmental protection legislation

9. Physical and chemical properties

Physical state: Solid
Colour: Blue
Odour: Odourless
pH value: 3,0-3,8 (50 g/l H₂O)
Melting point: 100°C
Solubility: 1150 g/l (water)

10. Stability and reactivity

Substances to be avoided:

Alkaline metals.
Hydrazine.
Strong reducing agents.
Metals.

Hazardous decomposition products:

Hydrogen chloride.

Further information:

Hygroscopic.
Releases water of crystallization when heated.
Incompatible with various metals and metal alloys.

11. Toxicological information

Acute toxicity:

LD₅₀ (oral, rat): 584 mg/kg (anhydrous substance)

After eye contact:

Irritation

After skin contact:

Irritations

After inhalation:

Irritations of the mucous membranes

Coughing

Dyspnoea

After swallowing:

Irritations of mucous membranes in the mouth

Irritations of pharynx

Irritations of oesophagus

Irritations of gastrointestinal tract

Vomiting

Diarrhoea

Drop in blood pressure

Further toxicological information:

Other dangerous characteristics are not discarded

Take the usual precautions for handling chemical products

12. Ecological information

Fishes: *C. auratus* EC₅₀: 0,01 mg/l (Cu)

Algae: EC₅₀: 1 mg/l (Cu)

Bacteria: *Photobacterium phosphoreum* EC₅₀: 0,27 mg/l (Cu)

Other harmful effects:

Highly toxic for aquatic organisms

May cause long-term adverse effects in the aquatic environment
Do not allow to enter waters, waste water, or soil

13. Disposal considerations

Product:

Dispose as regulated in the communitary countries by local regulations.
Please contact with the suitable authority in each case (Public Administration or company specialized in

Packaging:

Product packaging disposal must be disposed of in compliance with the respective local regulations.
For contaminated packaging the same measures must be adopted as for the contaminated product.
Not contaminated packaging must be disposed of as domestic residues or recycled material.
European Directive 94/62/EC of 20 December 1994 on packaging and packaging waste

14. Transport information

Overland transport ADR/RID

UN: 2802
Class: 8
Packaging group: III
Correct technical name: COPPER CHLORIDE

Sea transport IMDG

UN: 2802
Class: 8/III
Packaging group: III
Correct technical name: COPPER CHLORIDE

Air transport ICAO-IATA-DGR

UN: 2802
Class: 8
Packaging group: III
Correct technical name: COPPER CHLORIDE
CAO: 864
PAX: 860

15. Regulatory information

16. Other information

Full text of R phrases mentioned in sections 2 and 3
22 Harmful if swallowed.
36/37/38 Irritating to eyes, respiratory system and skin.
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
The information contained herein is based on the present state of our knowledge.
It characterizes the product with regard to appropriate safety precautions. It does not represent
a guaranty of the properties of the product.