

## Safety Data sheet

According to Directive 1907/2006

### 3802 COPPER (II) SULPHATE 5-HYDRATE GMP

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Creation Date: 12/05/2014 Revision date: 31/05/2017

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

### Identification of the product

Catalogue No: 3802 Product name: COPPER (II) SULPHATE 5-HYDRATE GMP Use of the substance: Analysis and chemical-pharmaceutical production REACH registration Nr.: 01-2119520566-40-XXXX

### Company/undertaking identification

QUALITY CHEMICALS, SL - C/Fornal 35. Pol. Ind. Can Comelles Sud 08292 ESPARREGUERA ESPAÑA Tel. 937709730 Fax. 937709337 e-mail: dtecnica@qualitychemicals.com

### Emergency telephone No.

Quality Chemicals S.L. Tel. +34 937709730 Only in business hours. Instituto Nacional de Toxicología \*Madrid\* Tel:915620420 Chemtrec: 800-424-9300

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## 2. Hazards identification

Labelling in accordance with directive 1907/2006



### R-phrases

22 Harmful if swallowed.

36/38 Irritating to eyes and skin.

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

### S-phrases

22 Do not breathe dust.

60 This material and its container must be disposed of as hazardous waste.

61 Avoid release to the environment. Refer to special instructions / Safety data sheets.

Labelling in accordance with directive 1272/2008



**H-phrases**

302 Harmful if swallowed.  
318 Causes serious eye damage.  
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 : DANGER

HARMFUL; DANGEROUS FOR ENVIRONMENT

R-phrases:

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

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### 3.Composition/information on ingredients

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

CAS-No.: 7758-99-8

Molecular Weight: 249,68

Chemical formula:  $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$

EC-Index-No.: 029-004-00-0

EC-No.: 231-847-6

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

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

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### 4.First aid measures

**After inhalation:**

Fresh air  
Call the physician  
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:**

To cause vomit  
Drink lots of water  
Call the doctor

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### 5.Fire-fighting measures

**Suitable extinguishing media:**

Adapt the materials of the surroundings

**Special risks:**

Fireproof

Ambient fire may liberate hazardous vapours

In case of fire, SO<sub>x</sub> gas can be formed

**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.

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## 6. Accidental release measures

**Person-related precautionary measures:**

Do not inhale dust

Avoid dust formation

Avoid contact with the substance

**Procedures for cleaning/absorption:**

Dry cleaning. Proceed to the elimination of any waste.

Rinse.

**Environmental protection measures:**

Do not send it to the sewerage system

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## 7. Handling and storage

Handling: Without other exigencies

**Storage:**

Well closed

Dry place.

Storage temperature: without limits

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## 8. Exposure controls/personal protection

**Personal protective equipment:**

**Respiratory protection:**

Necessary respiratory protection in the presence of dust

**Hand protection:**

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

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## 9. Physical and chemical properties

Physical state: Solid

Colour: Blue

Odour: Odourless  
pH value: 3,5-4,5 (50 g/l H<sub>2</sub>O)  
Melting point: 110°C  
Solubility: 317 g/l (water)

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## 10. Stability and reactivity

**Substances to be avoided:**

Hydroxylamine.

**Hazardous decomposition products:**

Sulphur oxides.

**Further information:**

To avoid heating.

Releases water of crystallization when heated.

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## 11. Toxicological information

**Acute toxicity:**

LD50 (dermal, rat): > 2000 mg/kg. LD50 (oral, rat): 960 mg/kg.

**After eye contact:**

Córnea disorder

Conjunctivitis

Irritation

**After skin contact:**

Irritations

**After inhalation:**

Irritations of the mucous membranes

Coughing

Dyspnoea

Metal-fume fever after inhalation of large quantities

**After swallowing:**

Vomiting

Collapso

Stomach pains

Tachycardia

Acidosis

Diarrhoea

Drop in blood pressure

After a latency period: death

**Further toxicological information:**

The precautions adapted for chemical agents must be observed

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## 12. Ecological information

Fishes: LC50: 0,1-2,5 mg/l/96h (anhydrous). C.aurata: 0,01 mg/l (lethal) (Cu).

Daphnia: Daphnia magna: EC50: 0,024 mg/l/48h (anhydrous).

Algae: Scenedesmus quadricauda: EC50: 0,1 mg/l/4h (anhydrous).

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

**Other harmful effects:**

Do not allow to enter waters, waste water, or soil

Highly toxic for aquatic organisms

May cause long-term adverse effects in the aquatic environment

Fungicidal effect

## 13. Disposal considerations

### Product:

Dispose as regulated in the community 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

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## 14. Transport information

### Overland transport ADR/RID

UN: 3077  
Class: 9  
Packaging group: III  
Correct technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

### Sea transport IMDG

UN: 3077  
Class: 9/III  
Packaging group: III  
Correct technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

### Air transport ICAO-IATA-DGR

UN: 3077  
Class: 9  
Packaging group: III  
Correct technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
CAO: 956  
PAX: 956

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## 15. Regulatory information

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## 16. Other information

Full text of R phrases mentioned in sections 2 and 3  
22 Harmful if swallowed.  
36/38 Irritating to eyes 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.