

## Safety Data sheet

According to Directive 1907/2006

### 3829 COPPER (II) SULPHATE ANHYDROUS GMP

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Creation Date: 05/06/2015 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: 3829 Product name: COPPER (II) SULPHATE ANHYDROUS 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.: 7758-98-7

Molecular Weight: 159,60

Chemical formula:  $\text{CuSO}_4$

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  
After skin contact:  
Rinse with abundant water (or have a shower)  
Get rid of the contaminated clothes  
Call the physician

**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

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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.

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:**

Avoid dust formation

Do not inhale dust

Avoid contact with the substance

Ventilation in closed spaces

**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

Exposure limit control

TLV-TWA: 1 mg/m<sup>3</sup> (Cu)

**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 and face when the work is finished

Fulfill the commitments under local environmental protection legislation

## 9. Physical and chemical properties

Physical state: Solid  
Colour: White to grey  
Odour: Odourless  
pH value: 3,5-4,5 (50 g/l H<sub>2</sub>O)  
Melting point: 650°C  
Solubility: 203 g/l (water)

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## 10. Stability and reactivity

**Substances to be avoided:**

Magnesium in powder form.  
Hydroxylamine.

**Hazardous decomposition products:**

Sulphur oxides.

**Further information:**

Not available.

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## 11. Toxicological information

**Acute toxicity:**

LD<sub>50</sub> (oral, rat): 300 mg/kg. LDLo (oral, human): 50 mg/kg.

**After eye contact:**

Irritation  
Córnea disorder  
Conjunctivitis

**After skin contact:**

Irritations

**After inhalation:**

Irritations of the mucous membranes  
Coughing  
Dyspnoea  
Metal-fume fever after inhalation of large quantities

**After swallowing:**

Diarrhoea  
Vomiting  
Stomach pains  
Tachycardia  
Acidosis  
Collapse  
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: *Onchorhynchus mykiss*: LC<sub>50</sub>: 0,11 mg/l/96h

Daphnia: *Daphnia magna*: EC<sub>50</sub>: 0,024 mg/l/48h

Algae: *Scenedesmus quadricauda*: EC<sub>50</sub>: 0,1 mg/l/4h

**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

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### 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.