

SAFETY DATA SHEET

(RG, 13.12.2014, No-29204) It complies with the Regulation on Safety Data Sheets on Hazardous Substances and Mixtures.

Substance/Mixture Name	Copper Sulphate Pentahydrate	Regulation Date	20.01.2025
		Editing Date	
Form No	140.060.24	Number Of Editing	1

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name : [Copper Sulphate Pentahydrate](#)
 Form No/GBF No : 140.060.24
 Brand : [Qlp](#)
 EC No : 231-847-6
 CAS No : 7758-99-8
 Country of Origin : Türkiye (The origin of the main component is different from the origin of the final product).

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

Identified uses : Laboratory chemicals, Manufacture of substances
 Uses advised against : No additional information available.

1.3 Details of the supplier of the tds Identification of the company

Company : Smart Kimya Ticaret ve Danışmanlık Limited Şirketi
 Central Address : 10016 Street No:18 AOSB Çiğli/İzmir
 Telephone : 0850 441 00 22
 Email Address : s@hammaddeler.com
 Websites : hammaddeler.com - gbf.com.tr

1.4 Emergency Phone Number

National Toxic Information Center (UZEM): 114

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of Substance and Mixture

Classification according to Regulation (EC) No 28848/2013

Acute toxicity, Oral (Category 4),H302
 Eye irritation (Category 2),H319
 Skin irritation (Category 2),H315
 Acute aquatic toxicity (Category 1),H400
 Chronic aquatic toxicity (Category 1),H410

2.2 Label elements

Labelling according Regulation (EC) No 28848/2013

Pictogram



Signal word (SEA) : Warning
 Hazard Statements (SEA)
 H302 : Harmful if swallowed.
 H315 : Causes skin irritation.
 H319 : Causes serious eye irritation
 H400 : Very toxic to aquatic life.
 H410 : Very toxic to aquatic life with long lasting effects.
 Precautionary statement(s)
 P264 : After handling... wash thoroughly.
 P270 : Do not eat, drink or smoke while using this product.
 P273 : Avoid release to the environment.
 P302 + P352 : IF ON SKIN: Wash with plenty of water/...
 P305 + P351 + P338 : IF IN EYES: rinse carefully with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
 P501 : Dispose of contents/container...

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2.3 Other hazards

No additional information available.

SECTION 3.COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Component Name	EC No	CAS No	Concentration (%)	(RG, 11.12. 2013, No 28848) Classification in accordance with the "Regulation on Classification, Labeling and Packaging of Substances and Mixtures" (SEA)
Copper(II) Sulfate Pentahydrate	231-847-6	7758-99-8	<= 100	Acute toxicity, Oral 4,H302 Eye irritation 2,H319 Skin irritation 2 ,H315 Acute aquatic toxicity 1,H400 Chronic aquatic toxicity1 ,H410

3.2 Mixtures

Not applicable.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a doctor. Show this safety data sheet to your doctor when you see him/her.

Following inhalation

If inhaled, remove victim to fresh air. If breathing has stopped, give artificial respiration. Consult a physician.

In case of skin contact

Wash with soap and plenty of water. Take the injured person to hospital immediately. Consult a doctor.

After eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Following ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Known symptoms and effects are stated on the label.

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use fire extinguishing methods appropriate to the environment.

5.2 Special hazards arising from the substance or mixture

Sulfur oxides, Copper oxides

5.3 Advice for firefighters

Use a complete mask with oxygen cylinder when necessary to extinguish fire.

5.4 Additional information

The product does not burn on its own.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use special respiratory protection. Avoid dust formation. Avoid breathing vapours, fumes or gases. Ensure good ventilation. Remove personnel to a safe area. Do not breathe waste.

For personal protection, see section 8.

6.2 Environmental precautions

If there is no safety hazard, prevent further leakage and spillage. Be careful not to mix with the sewer. Avoid dumping into the environment.

6.3 Methods and material for containment and cleaning up

Collect waste in a designated place without creating dust. Sweep and shovel. Store waste in closed and suitable containers.

6.4 Reference to other sections

For waste disposal, see section 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with eyes and skin. Avoid dust and aerosol formation. Adequate exhaust ventilation system should be provided in places where dust is formed.

For precautions, see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep container tightly closed in a dry and well-ventilated place. Sensitive to air. Hygroscopic. Should be used and stored under inert gas.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with Workspace Control Parameters

It does not contain any ingredients with exposure limits.

8.2 Exposure controls

8.2.1. Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash your hands immediately after handling the product and before taking a break from work.

8.2.2. Personal protection equipment

Eye/face protection

Wear eye protection equipment that has been tested and approved in accordance with standards such as face shield and safety glasses NIOSH (US) or EN 166 (EU).

Skin protection

Wear gloves when handling. Gloves should be checked before use. To avoid skin contact with this product, use the correct method of removing gloves (without touching the outer surface of the glove). Contaminated gloves should be disposed of in accordance with good laboratory practices and compliance rules. Wash and dry hands.

Hand Protection

The selected protective gloves must comply with the EU Directive 89/686/EEC and the EN 374 standards based on this directive.

Full contact

Material: Nitrile rubber

Minimum layer thickness 0.11 mm

Breakthrough time: 480 minutes

Splash contact

Material: Nitrile rubber

Minimum layer thickness 0.11 mm

Breakthrough time: 480 minutes

Test method: EN374

If used in solution or mixed with other substances and in a manner other than that specified in EN 374, please contact the supplier of the EU-approved gloves. This information is only a recommendation and should be developed by a safety officer and hygiene expert



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who is knowledgeable about the specific situation of the expected use by the customer. It should not be considered as an approval for any specific situation of use.

Body Protection

Complete protective overalls against chemicals, The type of protective materials must be determined for each workplace, depending on the amount and concentration of hazardous substances.

Respiratory protection

If the risk assessment determines that air-purifying respirators are appropriate, use full-face particulate respirators with N99 type (United States) or P2 (EN 143) respirator cartridges for technical controls. If a respirator is the only means of protection, use full-face air masks. Use respirators and equipment tested and approved according to relevant official standards such as NIOSH (United States) or CEN (European Union).

8.2.3. Environmental exposure controls

If there is no safety hazard, prevent further leakage and spillage. Be careful not to mix with the sewer. Avoid dumping into the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	: Crystal
Colour	: Blue
Odour	: No additional information available
pH(50 g/l 25°C)	: 3.7-4.5
Solubility	: No additional information available
Initial boiling point and boiling range	: No additional information available
Melting point/Freezing point	: 110 °C
Flash Point	: No additional information available
Evaporation Rate	: No additional information available
Vapor Pressure(25°C)	: 9.7 hPa
Relative density	: 2.284 g/cm ³
Flammability	: No additional information available
Bulk density	: No additional information available

9.2 Other information

No additional information available.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

No additional information available.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No additional information available.

10.4 Conditions to avoid

Do not expose to moisture.

10.5 Incompatible materials

Metals in powder form, Anhydrous copper(II) sulphate, Reacts violently with: , hydroxylamine, Magnesium

10.6 Hazardous decomposition products

No additional information available.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxic Effects

Acute toxicity

Oral : LD50 - rat - 300 mg/kg

Notes: Anhydrous

Dermal : LD50 - rat - > 2,000 mg/kg

Notes: Anhydrous

Serious eye damage/irritation

No additional information available.



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Skin corrosion/irritation

No additional information available.

Respiratory or skin sensitization

Prolonged or repeated exposure may cause allergic reactions in some sensitive individuals.

Germ cell mutagenicity

No additional information available.

Carcinogenicity

IARC: None of the ingredients in this product present at levels greater than or equal to 0.1% have been identified by IARC as probable, possible or confirmed carcinogens.

Reproductive toxicity

No additional information available.

Specific target organ toxicity – Single exposure

No additional information available.

Specific target organ toxicity - repeated exposure

No additional information available.

Aspiration Toxicity

No additional information available.

Additional Information

RTECS: GL8900000

To our knowledge, chemical, physical, and toxicological properties have not been fully investigated.

Liver - Disorder - Based on Human Experimental Evidence

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea) - 0.024 mg/l - 48 h

12.2 Persistence and degradability

No additional information available.

12.3 Bioaccumulative potential

No additional information available.

12.4 Mobility in soil

No additional information available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment is not available as chemical safety assessment is not required/implemented.

12.6. Endocrine disrupting properties

No additional information available.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer to give leftovers and non-recyclable solutions to a waste company.

Contaminated packaging

Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

14.1. UN number or ID number

ADR (Road)/RID (Rail) : 3077

IMDG (Seaway) : 3077

IATA (Airline) : 3077

14.2. UN proper shipping name

ADR (Road)/RID (Rail) : DANGEROUS FOR THE ENVIRONMENT (Copper sulphate pentahydrate)

IMDG (Seaway) : Environmentally hazardous substance, solid, n.o.s. (Copper sulphate pentahydrate)

IATA (Airline) : Environmentally hazardous substance, solid, n.o.s. (Copper sulphate pentahydrate)

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14.3. Transport hazard class(es)

ADR (Road)/RID (Rail) : 9
IMDG (Seaway) : 9
IATA (Airline) : 9

14.4. Packing group

ADR (Road)/RID (Rail) : III
IMDG (Seaway) : III
IATA (Airline) : III

14.5. Environmental hazards

ADR (Road)/RID (Rail) : Yes
IMDG (Seaway) : Yes
IATA (Airline) : Yes

14.6. Special precautions for user

No additional information available.

14.7. Bulk transportation according to MARPOL 73/78 annex II and IBC code

No additional information available

SECTION 15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

- Regulation on Classification, Labeling and Packaging of Substances and Mixtures (SEA) published in the Official Gazette dated December 1, 2013, bis numbered 28848.
-Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals (KKDIK) published in the Official Gazette dated June 23, 2017 and numbered 30105.

15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16. OTHER INFORMATION

Waiver Statement

The information presented in this safety data sheet is based on the information we already have. Although the information is reliable, it should not be considered accurate and complete. The prepared safety data sheet does not constitute a guarantee and should be used as a guide. This information has been prepared specifically for the substance or mixture in question, and may not be valid for compounds and processes made with other substances. and may vary depending on other raw materials; For this reason, the person or institution purchasing the products freely decides to use the product after evaluating its suitability for its own use, its impact on environmental conditions, its effects on occupational health and safety. Hammaler.com, Smart Kimya Tic. and Dan. Ltd. Şti., our representatives and solution partners cannot be held responsible for the use of this information.

