

Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 18.08.2022 Version 2

TEKKİM

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

1.1 Product identifier

Catalog No. TK.201774.00000
Product Name Copper (II) Nitrate Trihydrate
Cas no 10031-43-3

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

1.2.1. Relevant identified uses

Industrial use. Use as a laboratory reagent.

1.2.2. Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Name TEKKİM KİMYA SAN. TİC. LTD. ŞTİ.
Street ORGANİZE SAN. BÖL. MAVİ CAD. 8. SOK. NO :1 NİLÜFER / BURSA
Telephone 0224 243 21 71
E-mail erhan@tekkim.com.tr
Company Representative Erhan DİLER

1.4 Emergency Telephone Number +90 506 990 36 86

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Oxidizing solids, Category 2
Acute toxicity, Category 4, Oral
Skin irritation, Category 2
Eye irritation, Category 2
Acute aquatic toxicity, Category 1
Chronic aquatic toxicity, Category 1

For the full text of the H and EUH statements referred to in this section, see section 16.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictograms



Signal word (SEA)

DANGER

Hazard Statements (SEA)

H272 May intensify fire; oxidizer.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements (SEA)



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Prevention

- P210 Keep away from heat/sparks/open flames/hot surfaces. -No smoking.
P221 Take all precautionary measures to prevent mixing/mixing with combustibles.
P273 Avoid release to the environment.

Intervention

- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if fitted and easy to do. Continue rinsing.

SECTION 3: Composition/information on ingredients

Classification according to Regulation (EC) No. 1272/2008 (CLP)

3.1 Maddeler

EC No	221-838-5
Molar mass	241.60 g/mol
Cas No	10031-43-3
Concentration	(<= 100 %)

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Following inhalation	Provide fresh air..
Following skin contact	Wash with plenty of water. Take off contaminated clothing.
Following eye contact	In case of contact with eyes, rinse eyelids with water for 10-15 minutes. See a doctor immediately.
Following ingestion	Give up to two glasses of water. Get medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures appropriate to the environment.

Unsuitable extinguishing media

There is no restriction for this item.

5.2 Special hazards arising from the substance or mixture

It is not flammable. Depending on the oxygen output, it has a fire-increasing effect. All-round fire can release dangerous vapours. Fire may cause evolution of: nitrous gases, nitrogen oxides.

5.3 Advice for firefighters

Special protective equipment for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. Keep a safe distance to cut off contact with skin and wear suitable protective clothing.

5.4 Additional information

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.


SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Don't breathe vapours, aerosols. Avoid substance contact. Keep away from head and source of ignition. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert..



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6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

Close drainage channels. Take up with liquid-absorbent material. Clean the affected area. Avoid generation of dust..

6.4 Reference to other sections

Disposal: see section 13.

6.5 Additional information

Clear spills immediately.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Advices on safe handling

Observe label precautions.

Advices on general occupational hygiene

Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in dry and well-ventilated places. Store away from flammable materials.

7.3 Specific end uses

There are no other specific uses other than those mentioned in section 1.2.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

More attention should be paid to technical measures against the use of personal protective equipment.

Personal protection equipment

Eye/face protection

Safety glasses

Hand protection

Hand protection

Full contact

Glove material : Nitrile rubber

Glove thickness :0,11 mm

Break through time : >480 minute

Splash contact

Glove material : Nitrile rubber

Glove thickness :0,11 mm

Break through time : >480 minute

The protective gloves to be used must comply with the specifications of directive 89/686/EEC and the related standart EN374.


Other skin protection

Protective chlothing.

Respiratory protection



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Required when dusts occur.

Recommended filter type :P 2 Filter (according to DIN 3181) for solid and liquid particles of harmful elements.

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	Solid
Colour	Blue
Odour	No information.
Odour threshold	No information.
pH value	3 - 4 50 g/l 20 °C
Melting point/freezing point	114 °C
Freezing point	No information.
Initial boiling point and boiling range	No information.
Flash point	It doesn't shine.
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Upper/lower flammability or explosive limits	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	No information.
Vapour density	No information.
Density	2.05 g/cm ³ 20 °C
Relative density	No information.
Water solubility (g/l)	2670 g/l 20 °C
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	No information.
Auto-ignition temperature	No information.
Decomposition temperature	>170 °C

Viscosity

Kinematic viscosity	No information.
Dynamic viscosity	No information.
Explosive properties	Not classified as explosive.
Oxidising properties	It shows oxidation feature.

SECTION 10: Stability and Reactivity

10.1 Reactivity

Strong oxidizing agent.

10.2 Chemical stability

Sensitive to moisture. When heated, the water of crystallization is released.

10.3 Possibility of hazardous reactions

Risk of explosion with ammonia, amides, oxidizing agents, metals, organic substances.
May form exothermic reaction with acetic anhydride.

10.4 Conditions to avoid

Powerful heating.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products


No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects



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Acute oral toxicity
LD50 Rat: 940 mg/kg
(RTECS)
Symptoms: Vomiting

Acute inhalation toxicity
Symptoms: Possible damages:., mucosal irritations

Skin irritation
Causes skin irritation.
Rabbit
Result: irritations
OECD Test Guideline 404

Eye irritation
Causes serious eye irritation.
Rabbit
Result: irritating
OECD Test Guideline 405

11.2 Additional information

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish
LC50 fish: 0.29 mg/l; 96 h
(anhydrous substance) (HSDB)

12.2 Persistence and degradability

Methods for measuring biological degradation cannot be applied to inorganic substances.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB.

12.6 Other adverse effects

Discharge into environment must be avoided.

SECTION 13: Disposal considerations

Waste treatment methods

It must be disposed of in accordance with national and local regulations. Do not mix with other products. Uncleaned Treat packages as if it were the product itself ... Waste materials must be disposed of in accordance with national and local regulations.

SECTION 14: Transport information

ADR	IMDG	IATA	ADN	RID
14.1 UN number UN 1477	UN 1477	UN 1477	UN 1477	UN 1477
14.2 UN proper shipping name NITRATES, INORGANIC, N.O.S. (COPPER(II)-NITRATE)	NITRATES, INORGANIC, N.O.S. (COPPER(II)-NITRATE)	NITRATES, INORGANIC, N.O.S. (COPPER(II)-NITRATE)	NITRATES, INORGANIC, N.O.S. (COPPER(II)-NITRATE)	NITRATES, INORGANIC, N.O.S. (COPPER(II)-NITRATE)
14.3 Transport hazard class(es) 5.1	5.1	5.1	5.1	5.1



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14.4 Packing group

II

II

II

II

II

14.5 Environmental hazards

YES

YES

YES

YES

YES

No information available.

No information available.

No information available.

No information available.

No information available.

14.6 Special Precautions for User:

No information available.

SECTION 15: Regulatory information

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

This product safety data sheet complies with the requirements of EU Regulation 1907/2006.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been conducted for this substance.

SECTION 16: Other informations

Full text of H statements


- H272 May intensify fire; oxidizer.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H410 Very toxic to aquatic life with long lasting effects.

Person Who Prepared the Safety Data Sheet:

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