

Safety Data Sheet

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

Revision Date: 15.08.2022 Version 2

TEKKİM

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

1.1 Product identifier

Catalog No. TK.200750.00000
Product Name Copper (II) Oxide
Cas no 1317-38-0

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)

Short term (acute) aquatic hazard, Category 1
Long (chronic) aquatic hazard, 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)

WARNING

Hazard Statements (SEA)

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements (SEA)

Prevention

P273 Avoid release to the environment.

Intervention

P391 Collect spillage.

P501 Dispose of contents/container to an approved waste disposal facility.

SECTION 3: Composition/information on ingredients


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

3.1 Maddeler

EC No 215-269-1
Molar mass 79.55 g/mol
Cas No 1317-38-0



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ISO 9001:2015 and ISO 14001:2015

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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

Rinse immediately carefully and thoroughly with eye-bath or water..

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

Water spray. Alcohol resistant foam. Dry extinguishing powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media

There is no restriction for this item.

5.2 Special hazards arising from the substance or mixture

Copper oxides. It is not flammable. All-round fire can release dangerous vapours.

5.3 Advice for firefighters

Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus..

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..

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.



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7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in dry and well-ventilated places.

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

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



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Physical state	Solid
Colour	Black
Odour	Odorless
Odour threshold	No information.
pH value	No information.
Melting point/freezing point	1,326 °C (decomposition)
Freezing point	No information.
Initial boiling point and boiling range	Not applicable.
Flash point	No information.
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	6.48 g/cm ³ 25 °C
Relative density	No information.
Water solubility (g/l)	0.0001 g/l 20 °C
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	No information.
Auto-ignition temperature	Not applicable.
Decomposition temperature	No information.
Viscosity	
Kinematic viscosity	No information.
Dynamic viscosity	No information.
Explosive properties	Not classified as explosive.
Oxidising properties	none

SECTION 10: Stability and Reactivity

10.1 Reactivity

Section 10.3 to see.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

There is a risk of explosion with aluminum.

Violent reactions may occur with boron, hydrazine and its derivatives, hydroxylamine, sodium, magnesium.

Risk of explosion or formation of flammable gases or vapors with hydrogen sulphate, fluorine, hydrides, potassium, acid anhydrides, hydrogen.

10.4 Conditions to avoid

No information available.

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 Oral - Rat - male - > 2.500 mg/kg
Symptoms: Possible damages:, Vomiting, Pain, Diarrhea,
(OECD Test Guideline 423)

Acute Dermal toxicity
LD50 Dermal - Rat - male and female - > 2.000 mg/kg
Symptoms: Irritant symptoms in the respiratory tract.
(OECD Test Guideline 402)

Skin corrosion/irritation
Skin - Rabbit
Result: No skin irritation - 4 h
(OECD Test Guideline 404)

Oral Acute toxicity - Possible damages:, Vomiting, Pain, Diarrhoea
Acute inhalation toxicity - Irritant symptoms in the respiratory tract.

11.2 Additional information

Symptoms of systemic copper poisoning include capillary damage, headache, cold sweat, weak pulse, kidney and liver damage, stimulation of the central nervous system followed by depression, jaundice, convulsions, paralysis, and coma. There may be cases of death from shock or kidney failure.

Systemic effects: CNS disorders

Handle in accordance with safety and hygiene rules.

SECTION 12: Ecological information

12.1 Toxicity

No information available.

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 3077	UN 3077	UN 3077	UN 3077	UN 3077
14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE,SOLID, N.O.S.(Contains: Copper (II) Oxide), MARINE POLLUTANT,	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,SOLID, N.O.S.(Contains: Copper (II) Oxide), MARINE POLLUTANT,	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,SOLID, N.O.S.(Contains: Copper (II) Oxide), MARINE POLLUTANT,	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,SOLID, N.O.S.(Contains: Copper (II) Oxide), MARINE POLLUTANT,	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,SOLID, N.O.S.(Contains: Copper (II) Oxide), MARINE POLLUTANT,
14.3 Transport hazard class(es) 9	9	9	9	9



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14.4 Packing group

III III III III III

14.5 Environmental hazards

YES YES YES YES YES

Packages less than 5 kg/l or equivalent, non-hazardous goods of Class 9

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Packages less than 5 kg/l or equivalent, non-hazardous goods of Class 9

14.6 Special Precautions for User:

Packages less than 5 kg/l or equivalent, non-hazardous goods of Class 9

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


H410 Very toxic to aquatic life with long lasting effects.

Person Who Prepared the Safety Data Sheet:

Name: Erhan DİLER
Certificate Number and Date: 11.29.03 & 11 Şubat 2020
Communication information: 05069903686



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