

Safety Data Sheet

1. Chemical product and company identification

Product name : Copper(II) carbonate, basic

Company information

Name of manufacturer : KANTO CHEMICAL CO., INC.
Address : 2-1, Nihonbashi, Muromachi 2-Chome, Chuo-Ku, Tokyo, 103-0022, JP
Name of section : Business Administration Department, Reagent Division
Telephone number : +81-3-6214-1090
Facsimile number : +81-3-3241-1047
Mail address : BC32@kanto.co.jp
Reference No : 07487
Recommended use : For research use only
Restrictions on use : Seek expert judgment when using the product for applications other than those recommended.

2. Hazards identification

GHS classification

Health hazards Acute toxicity (oral) Category 4

Hazard
pictograms



Signal word : Warning

Hazard statements : Harmful if swallowed

Precautionary statements

Prevention : Wash hands, forearms and face thoroughly after handling.
Do not eat, drink or smoke when using this product.
Response : IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
Rinse mouth.
Disposal : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

3. Composition/information on ingredients

Distinction of substance or mixture : Substance

Chemical name	Concentration (%)	Formula	TSCA	EC-No.	CAS RN
Copper(II) carbonate, basic	54 - 58	approx. CH ₂ Cu ₂ O ₅	Listed	235-113-6	12069-69-1

*Concentration : as Cu.



4. First aid measures

First aid measures

First-aid measures after inhalation	: Remove the victim to fresh air, and make him blow his nose and gargle.
First-aid measures after skin contact	: Wash the affected areas under running water.
First-aid measures after eye contact	: Wash the affected areas under running water.
First-aid measures after ingestion	: Give the victim water or salt water and make him vomit. Get medical attention.
Personal Protection in First Aid and Measures	: Rescuers should wear proper protective equipment like rubber gloves, goggles.

5. Fire fighting measures

Suitable extinguishing media	: This product is noncombustible.
Unsuitable extinguishing media	: None
Fire hazard	: Thermal decomposition emits harmful copper(II) oxide fume.
Firefighting instructions	: Move containers from fire area if it can be done without risk, if not possible, apply water from a safe distance to cool and protect surrounding area.
Personal protection (Emergency response)	: Wear breathing apparatus.

6. Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures

General measures	: Wear proper protective equipment and avoid contact with skin and inhalation of dust. Conduct operations from upwind and evacuate people downwind.
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Environmental precautions

Environmental precautions	: Attention should be given to avoid damage to the environment by flowing of spillage to rivers.
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Methods and Equipment for Containment and Cleaning up

For containment	: Sweep up in a chemical waste container. Flush contaminated area with copious amounts of water.
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7. Handling and storage

Handling

Technical measures	: Wear appropriate protective equipment to avoid contact with skin or inhalation of dust.
Precautions for safe handling	: Avoid formation of dust and aerosols.

Storage

Storage conditions	: Store in a dark, cool place and tightly closed.
Material used in packaging/containers	: Glass, polyethylene, polypropylene.

8. Exposure controls / Personal protection equipment

ACGIH TWA	Not established
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Appropriate engineering controls : Install a local ventilation system in case of dusty condition.

Protective equipment

Respiratory protection : If necessary, wear dust mask

Hand protection : Impervious protective gloves

Eye protection : Safety goggles

Skin and body protection : Protective clothing, protective boots

9. Physical and chemical properties

Physical state : Solid

Color : Pale bluish green

Odor : Odorless

pH : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature : 220 ° C

Flammability : Not flammable.

Vapor pressure : No data available

Relative density : 3.85 (25/4°C)

Density : No data available

Relative gas density : No data available

Solubility : Water: Insoluble. Organic solvents: Insoluble in ethanol.

Partition coefficient n-octanol/water (log Pow) : No data available

Explosive limits (vol %) : No data available

Viscosity, kinematic : No data available

Particle characteristics : No data available

10. Stability and reactivity

Reactivity : When boiled with a solution containing alkali carbonate, it becomes a brown oxide.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : May react violently when in contact with oxidizing substances.

Conditions to avoid : Light, heat.

Incompatible materials : Oxidizing substances.

Hazardous decomposition products : Carbon monoxide, copper oxides.

11. Toxicological information

Acute toxicity (oral) : Harmful if swallowed
rat LD50=1350mg/kg



Acute toxicity (dermal)	: Classification not possible
Acute toxicity (inhalation)	: No classification (gas) Classification not possible (vapor) Classification not possible (dust, mist)
Skin corrosion/irritation	: Classification not possible May cause skin irritation.
Serious eye damage/irritation	: Classification not possible May cause eye irritation.
Respiratory sensitization	: Classification not possible
Skin sensitization	: Classification not possible As relevant notes, copper and its compounds were classified as "group 2 for skin sensitizer" by Japan Society for Occupational Health, but all substances in this compound group were not identified.
Germ cell mutagenicity	: Classification not possible
Carcinogenicity	: Classification not possible
Reproductive toxicity	: Classification not possible
STOT-single exposure	: Classification not possible Besides, it was reported that by the inhalation exposure to copper dusts and mists in humans, irritation of the respiratory tract, coughing, nausea, headache, gastric pain, vomiting, hemorrhagic gastritis, diarrhea and symptoms similar to metal fume fever were observed. In addition, there is a description of gastrointestinal tract irritation, nausea, vomiting and diarrhea by the oral ingestion of metal copper in humans.
STOT-repeated exposure	: Classification not possible
Aspiration hazard	: Classification not possible

12. Ecological information

Ecotoxicity

Aquatic acute	: Classification not possible
Aquatic chronic	: Classification not possible

Persistence and degradability

No additional information available

Bioaccumulative potential

No additional information available

Mobility in soil

No additional information available

Hazardous to the ozone layer

Ozone	: Classification not possible
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13. Disposal considerations

Ecological waste information	: Disposal should be made by one of following methods. Orentrust approved waste disposal companies with the disposal.
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Solidification method :
Solidify with cement and bury in a landfill site approved for hazardous waste disposal.

Roasting method :



In case of a large amount of the chemical, recover metal copper by roast reduction method.

<Note>

*In case of disposal by roasting method, it is desirable to entrust to disposal companies.

Contaminated container and packaging

: In case of disposal of empty bottles, dispose bottles after removing the content thoroughly.

14. Transport information

International Regulations

Transport by sea(IMDG)

UN-No. (IMDG) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Packing group (IMDG) : Not applicable
Transport hazard class(es) (IMDG) : Not applicable

Air transport(IATA)

UN-No. (IATA) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Packing group (IATA) : Not applicable
Transport hazard class(es) (IATA) : Not applicable
Marine pollutant : Not applicable

15. Regulatory information

Regulatory information with regard to this substance in your country or region should be examined by your own responsibility.

16. Other information

Data sources : Encyclopaedia Chimica, Kyoritsu Shuppan Co, Ltd. (1963) .
Handbook of Poisonous and Deleterious substances, revised and enlarged edition, Yakumu Kohosa (2000) .
NITE Chemical Risk Information Platform (NITE-CHRIP), National Institute of Technology and Evaluation.

The information contained herein is based on several references and the present state of our knowledge. However the SDS does not always cover all information about the product, handle the product carefully. The information is intended to ordinary usage, in case of particular handlings, conduct appropriate safety measurements. The information herein is only provision of information, and it does not represent a guarantee the properties of the product. The Safety Data Sheet(SDS) is prepared based on JIS Z7253.

