



Sincere Union Imp & Exp Co.,Ltd

Metals Kingdom Industry Limited

Tel: +86-312-3182007 Mobile: 13930205358 Fax:+ 86-312-3182003

Web: <http://www.sincereunion.com> www.metalskingdom.com

Email: sales@sincereunion.com sales@metalskingdom.com

Add: 1131,Hengtong Fortune Center, 709 Chaoyang North Street,
New Tech Development Zone,Baoding City,Hebei,P.R.China PC071000

Material Safety Data Sheet

COPPER OXIDE

1. Product Identification

Synonyms: Black copper oxide; copper (II) oxide

CAS No.: 1317-38-0

Molecular Weight: 79.55

Chemical Formula: CuO

Molecular Weight: 143.08

Chemical Formula: Cu₂O

CAS No: 1317-39-1

Manufacturer: Metals Kingdom Industry Limited

Address: 1131,Hengtong Fortune Center, 709 Chaoyang North Street

New Tech Development Zone,Baoding City,Hebei,P.R.China PC071000

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2. Composition/Information on Ingredients

| Ingredient | CAS No | Percent | Hazardous |
|------------|--------|---------|-----------|
|------------|--------|---------|-----------|

| | | | |
|--------------|-----------|------|-----|
| Cupric Oxide | 1317-38-0 | 100% | Yes |
|--------------|-----------|------|-----|

3. Hazards Identification

Ratings (Provided here for your convenience)

Health Rating: 2 - Moderate

Flammability Rating: 1 - Slight

Reactivity Rating: 0 - None

Contact Rating: 1 - Slight

Lab Protective Equip: GOGGLES; LAB COAT

Storage Color Code: Orange (General Storage)



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Causes irritation to respiratory tract, symptoms may include coughing, sore throat, and shortness of breath. May result in ulceration and perforation of respiratory tract.

When heated, this compound may give off copper fume, which can cause symptoms similar to the common cold, including chills and stuffiness of the head.

Systemic copper poisoning may result from ingestion of this compound. Symptoms may include capillary damage, headache, cold sweat, weak pulse, kidney and liver damage, central nervous excitation followed by depression, jaundice, convulsions, blood effects, paralysis and coma. Death may occur from shock or renal failure.

Causes irritation, redness, pain.

Causes irritation with redness, pain. May cause eye damage.

Prolonged or repeated skin exposure may cause dermatitis. Prolonged or repeated exposure to dusts of copper salts may cause discoloration of the skin or hair, blood and liver damage, ulceration and perforation of the nasal septum, runny nose, metallic taste, and atrophic changes and irritation of the mucous membranes.

Persons with pre-existing skin disorders, impaired liver, kidney, or pulmonary function, glucose 6-phosphate-dehydrogenase deficiency, or pre-existing Wilson's disease may be more susceptible to the effects of this material.

Emergency Overview

WARNING! HARMFUL IF SWALLOWED. AFFECTS THE LIVER AND KIDNEYS. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

Potential Health Effects

Inhalation:

Ingestion:

Skin Contact:

Eye Contact:

Chronic Exposure:

Aggravation of Pre-existing Conditions:

4. First Aid Measures

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Call a physician immediately.

In case of contact, wipe off excess material from skin then immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes.

Wash clothing before reuse. Call a physician.



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Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Inhalation:

Ingestion:

Skin Contact:

Eye Contact:

5. Fire Fighting Measures

Not considered to be a fire hazard. Large masses exposed to moist air at over 100C can result in spontaneous combustion.

Not considered to be an explosion hazard. Reactions with incompatibles may pose an explosion hazard.

Use any means suitable for extinguishing surrounding fire.

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Fire:

Explosion:

Fire Extinguishing Media:

Special Information:

6. Accidental Release Measures

Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in

Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

-OSHA Permissible Exposure Limit (PEL):

1 mg/m³ (TWA) for copper dusts & mists as Cu



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-ACGIH Threshold Limit Value (TLV):

1 mg/m³ (TWA) for copper dusts & mists as Cu

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, , most recent edition, for details.

If the exposure limit is exceeded, a half-face dust/mist respirator may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece dust/mist respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator.

WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Wear protective gloves and clean body-covering clothing.

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Airborne Exposure Limits:

Ventilation System:

Industrial Ventilation, A Manual of Recommended Practices

Personal Respirators (NIOSH Approved):

Skin Protection:

Eye Protection:

9. Physical and Chemical Properties

Appearance:

Black to brownish-black powder, granules, or wire.

Odorless.

Insoluble in water.

6.32 @ 14C/4C

No information found.

0

Not applicable.

1026C (1879F)

No information found.



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No information found.

No information found.

Odor:

Solubility:

Density:

pH:

% Volatiles by volume @ 21C (70F):

Boiling Point:

Melting Point:

Vapor Density (Air=1):

Vapor Pressure (mm Hg):

Evaporation Rate (BuAc=1):

10. Stability and Reactivity

Stable under ordinary conditions of use and storage.

Toxic metal fumes may form when heated to decomposition.

Will not occur.

Aluminum, boron, cesium acetylene carbide, dirubidium acetylide, hydrazine, hydrogen, hydrogen sulfide, lead oxide, magnesium, metals, phospham, potassium, phthalic anhydride, rubidium acetylene carbide, sodium, titanium, and zirconium. Forms acetylides with acetylene, sodium hypobromite and nitromethane.

Incompatibles.

Stability:

Hazardous Decomposition Products:

Hazardous Polymerization:

Incompatibilities:

Conditions to Avoid:

11. Toxicological Information

No LD50/LC50 information found relating to normal routes of occupational exposure.

-----\Cancer

Lists\-----

---NTP Carcinogen---

Ingredient Known Anticipated IARC Category

Cupric Oxide (1317-38-0) No No None

12. Ecological Information



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When released into the soil, this material is not expected to biodegrade. When released into water, this material is not expected to biodegrade. When released into water, this material is not expected to evaporate significantly.

No information found.

Environmental Fate:

Environmental Toxicity:

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

-----\Chemical Inventory Status - Part

1\-----

Ingredient TSCA EC Japan Australia

Cupric Oxide (1317-38-0) Yes Yes Yes Yes

-----\Chemical Inventory Status - Part

2\-----

--Canada--

Ingredient Korea DSL NDSL Phil.

Cupric Oxide (1317-38-0) Yes Yes No Yes

-----\Federal, State & International Regulations - Part

1\-----

-SARA 302- -----SARA 313-----

Ingredient RQ TPQ List Chemical Catg.

Cupric Oxide (1317-38-0) No No No Copper compo

-----\Federal, State & International Regulations - Part

2\-----

-RCRA- -TSCAIngredient



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CERCLA 261.33 8(d)

Cupric Oxide (1317-38-0) No No No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No

SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No

Reactivity: No (Pure / Solid)

No information found.

No information found.

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Australian Hazchem Code:

Poison Schedule:

WHMIS:

16. Other Information

Health: Flammability: Reactivity:

WARNING! HARMFUL IF SWALLOWED. AFFECTS THE LIVER AND KIDNEYS. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

Avoid breathing dust.

Keep container closed.

Use only with adequate ventilation.

Wash thoroughly after handling.

Avoid contact with eyes, skin and clothing.

If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. In all cases, get medical attention.

Laboratory Reagent.

MSDS Section(s) changed since last revision of document include: 3, 9, 16.

Strategic Services Division

Phone Number: (314) 539-1600 (U.S.A.)

NFPA Ratings: 2 1 0



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Label Hazard Warning:

Label Precautions:

Label First Aid:

Product Use:

Revision Information:

Disclaimer:

Metals Kingdom Industry Limited provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy.

This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.