Reviewed on 07/08/2024 Printing date 07/09/2024

### 1 Identification

· Product identifier

· Trade name: Copper(II) oxide

· Article number: 136820

· CAS Number: 1317-38-0 · EC number: 215-269-1

· Index number: 029-016-00-6

- · Application of the substance / the mixture Laboratory chemicals for research and development
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

BeanTown Chemical 9 Sagamore Park Road Hudson, NH 03051 USA

Phone: (603) 402-2234 Fax: (603) 402-9713

Email: technical@beantownchem.com

www.beantownchem.com

- · Information department: Technical Support Department
- Emergency telephone number:

During normal operating hours, please call (603) 402-2234 After hours, please call Chemtrec at (800) 424-9300

### 2 Hazard(s) identification

· Classification of the substance or mixture



Acute Tox. 4 H302 Harmful if swallowed.

- · Label elements
- GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



GHS07

- · Signal word Warning
- · Hazard-determining components of labeling:
- copper(II) oxide · Hazard statements

Harmful if swallowed.

· Precautionary statements

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

If swallowed: Call a poison center/doctor if you feel unwell.

(Contd. on page 2)

Printing date 07/09/2024 Reviewed on 07/08/2024

Trade name: Copper(II) oxide

(Contd. of page 1)

Rinse mouth.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable. · **vPvB**: Not applicable.

### 3 Composition/information on ingredients

· Chemical characterization: Substances

· CAS No. Description 1317-38-0 copper(II) oxide · Identification number(s)

· EC number: 215-269-1 · Index number: 029-016-00-6

### 4 First-aid measures

- · Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: Immediately call a doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

(Contd. on page 3)

Printing date 07/09/2024 Reviewed on 07/08/2024

### 7 Handling and storage

- · Handling:
- · Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

· Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute

- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

- · Breathing equipment: Not required.
- Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Not required.

US

Printing date 07/09/2024 Reviewed on 07/08/2024

Trade name: Copper(II) oxide

(Contd. of page 3)

Information on basic physical and	chemical properties
General Information Appearance:	
Form:	Powder
Color:	Not determined.
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	Not applicable.
Change in condition	
Melting point/Melting range:	1,330 °C (34.430 °F)
Boiling point/Boiling range:	Undetermined
Flash point:	Not applicable.
Flammability (solid, gaseous):	Product is not flammable.
Decomposition temperature:	Not determined.
Auto igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not applicable.
Density at 20 °C (68 °F):	6.4 g/cm³ (53.408 lbs/gal)
Relative density	Not determined.
Vapor density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
Water:	Insoluble.
Partition coefficient (n-octanol/wat	er): Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
VOC content:	0.00 %
Solids content:	100.0 %
Other information	No further relevant information available.

### 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.

(Contd. on page 5)

Printing date 07/09/2024 Reviewed on 07/08/2024

Trade name: Copper(II) oxide

· Hazardous decomposition products: No dangerous decomposition products known.

(Contd. of page 4)

### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

### 12 Ecological information

- Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 3 (Assessment by list): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

US

Printing date 07/09/2024 Reviewed on 07/08/2024

Trade name: Copper(II) oxide

(Contd. of page 5)

Transport information	
UN-Number DOT, IMDG, IATA	UN3077
UN proper shipping name DOT	Environmentally hazardous substance, solid, n.o.s. (copper(oxide)
IMDG, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O (copper(II) oxide)
Transport hazard class(es)	
DOT, IMDG, IATA Class Label	9 Miscellaneous dangerous substances and articles 9
Packing group DOT, IMDG, IATA	III
Environmental hazards: Marine pollutant: Special marking (IATA):	No Symbol (fìsh and tree)
Special precautions for user Stowage Category Stowage Code	Warning: Miscellaneous dangerous substances and articles A SW23 When transported in BK3 bulk container, see 7.6.2.12 a 7.7.3.9.
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	<b>II of</b> Not applicable.
Transport/Additional information:	
DOT Quantity limitations	On passenger aircraft/rail: No limit On cargo aircraft only: No limit
<i>IMDG</i>	
Limited quantities (LQ) Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
UN "Model Regulation":	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANC SOLID, N.O.S. (COPPER(II) OXIDE), 9, III

### 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara
- Section 355 (extremely hazardous substances):

Substance is not listed.

· Section 313 (Specific toxic chemical listings):

Substance is listed.

(Contd. on page 7)

Printing date 07/09/2024 Reviewed on 07/08/2024

Trade name: Copper(II) oxide

(Contd. of page 6)

#### · TSCA (Toxic Substances Control Act):

ACTIVE

#### · Hazardous Air Pollutants

Substance is not listed.

### · Proposition 65

#### · Chemicals known to cause cancer:

Substance is not listed.

### · Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

### · Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

### · Chemicals known to cause developmental toxicity:

Substance is not listed.

#### · Carcinogenic categories

### · EPA (Environmental Protection Agency)

Substance is not listed.

#### · TLV (Threshold Limit Value)

Substance is not listed.

### · NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

### · RTECS

Substance is not listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· NFPA ratings (scale 0-4)

Health = 2

Fire = 0

Reactivity = 0

### · HMIS ratings (scale 0-4)

Health = 2

Fire = 0

Reactivity = 0

- · Department issuing SDS: Technical Support Department
- · Contact: Technical Support Department
- Date of preparation / last revision 07/09/2024 / -
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

(Contd. on page 8)

Printing date 07/09/2024 Reviewed on 07/08/2024

Trade name: Copper(II) oxide

(Contd. of page 7)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health

OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Tox. 4: Acute toxicity – Category 4

110