

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

Product No: BCMI-001

Trade name: Copper(I)bromide

6.0

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Revision date: 31.10.2019

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

1.1. Product identifiers

Product Name: CuBr

Formal Name: Copper (I) bromide, Cuprous bromide

Product Number: BCMI-001

CAS-Nr.: 7787-70-4

Index No.: not available

EC No: 232-131-6

REACH No: not available

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

Identified uses:

Laboratory chemical, for research and development only

1.3. Details of the supplier of the safety data sheet

baseclick GmbH

Floriansbogen 2-4

82061 Neuried

Germany

Telephone: +49 89 9699 3401

Fax: +49 9699 4696

E-mail: support@baseclick.eu

1.4. Emergency telephone number

+49 89 9699 3401 (Working days Germany 09:00 AM – 05:00 PM CET)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Classification according to Regulation (EC) No 1272/2008

Skin irritation (Category 2), H315 Causes skin irritation.

Eye irritation (Category 2), H319 Causes serious eye irritation.

Specific target organ toxicity - single exposure (respiratory tract irritation) (STOT SE 3), H335

May cause respiratory irritation

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2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

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

Hazard symbols:



Signal word: Warning

Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statements:

P261 Avoid breathing dust.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contactlenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.1 Substance(s)

Formula: CuBr

MW: 143.45 g/mol

Purity: $\geq 99\%$ (trace metal basis)

Description: pale-green powder

TLV units: Unknown

EG-Nr. : 232-131-6

3.2 Mixtures

not relevant

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes:

Avoid all direct contact.

In case of contamination always contact physician.

If inhaled:

Move person into fresh air. If not breathing give artificial respiration.

In case of skin contact:

Wash off with soap and plenty of water.

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In case of eye contact:

Flush thoroughly with water.

If swallowed:

Contact physician.

Never induce vomiting or give liquids to someone who is unconscious or cannot swallow.

Rinse mouth with water



4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

5.2 Special hazards arising from the substance or mixture

A finely divided dust aerosol may be explosive although the exact conditions of the hazard are unknown. Avoid dispersing dust.

5.3 Advice for fire-fighters

Use material suitable and appropriate to surrounding fire conditions.

Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid all direct contact.

Respiratory protection: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Protective gloves: Impermeable

Eye protection: Laboratory safety glasses

Other protective equipment: Normal laboratory apparel

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6.2 Environmental precautions

Take precautions to ensure product does not enter the drainage system.

6.3 Methods and material for containment and cleaning up

Take up under dust avoidance. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Information for safe handling: Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. Avoid dust formation.

Information about fire: No risk of explosion or fire

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: No further requirements

Information about storage in one common storage facility: Not required

Further information about storage conditions: RT, dry, inert gas

Storage class (TRGS 510): 13 Non Combustible Solids

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection Handling and storage

8.1 Control parameters

Additional information about design of technical facilities: No further requirements.

Ingredients with limit values that require monitoring in the workplace: No ingredients need monitoring.

8.2 Exposure controls



Appropriate engineering controls General industrial hygiene practice.

Personal protective equipment

Eye/face protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M) Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Control of environmental exposure No special environmental precautions required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: powder

Colour: pale green

Odour: None

Odour threshold: No data available

pH (value): No data available

Melting point/freezing point: Melting point / range: 504 °C

Initial boiling point and boiling range: No data available

Flash point: Not applicable

Evaporation rate: No data available

Flammability (solid, gas): No data available

lower explosion limit (LEL): No data available

upper explosion limit (UEL): No data available

Explosion limits of dust clouds: No data available

Vapour pressure: No data available

Vapour density: No data available

Relative density: 4,71 g/cm³ bei 25 °C

Water solubility (20 °C): No data available

Partition coefficient: n-octanol/water: No data available

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Auto-ignition temperature: Not self-igniting
Decomposition temperature: No data available
Viscosity, flow time (23 °C): No data available
Viscosity, dynamic (mPas / 20 °C): No data available
Explosive properties: No data available
Oxidizing properties: No data available

9.2 Other information:

Solubility: Click Solution (BCMI-003)

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

Thermal decomposition/condition to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

Dangerous reactions: Avoid Oxidizing agents, Alkali metals

10.4 Conditions to avoid

Dangerous decomposition: Hazardous decomposition products formed under fire conditions.
- Hydrogen bromide gas, Copper oxides.

10.5 Incompatible materials

Avoid Oxidizing agents, Alkali metals

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Hydrogen bromide gas, Copper oxides.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: No data available

Skin corrosion/irritation: No data available

Serious eye damage/eye irritation: No data available

Respiratory or skin sensitisation: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity: No data available

Specific target organ toxicity -single exposure: No data available

Specific target organ toxicity -repeated exposure: No data available

Aspiration hazard: No data available

Additional Information: RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Process of degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB

12.6 Other adverse effects

No data available

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product:

Consult the appropriate local waste disposal expert about waste disposal.

Contaminated packaging:

see Product

SECTION 14: Transport information

14.1 UN number

ADR/RID: -

IMDG: -

IATA: -

14.2 UN Proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

14.4 Packing group

ADR/RID: -

IMDG: -

IATA: -

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

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SECTION 15: Regulatory information

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

This safety data sheet meets the requirements of Regulation (EC) No 1907/2006

National regulations

Water hazard class:

WGK 3, highly water-hazardous - self-classification

Labelling according to EU guidelines: This takes into account directive 67/548/EEC and 1999/45/EC

Hazard symbols: GHS07

15.2 Chemical Safety Assessment

Note: The toxicological properties of this material have not yet been thoroughly investigated.

Use prudent laboratory practices for handling chemical substances of unknown toxicity.

SECTION 16: Other information

16.1 Further information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. It does not represent any guarantee of the accuracy, completeness or properties of the product. This material is intended for use by persons with pertinent technical skills and at their discretion and risk. It is the responsibility of the user to determine the product's suitability for its intended use, the product's safe use, and the product's proper disposal. Disposal of hazardous material may be subject to local laws or regulations. Baseclick GmbH shall not be held liable for any damage resulting from handling or from contact with the above product. Not for drug use! For R&D only!