

# LTS Research Laboratories, Inc. Safety Data Sheet Copper (II) bromide

### 1. Product and Company Identification

Trade Name: Copper (II) bromide

Chemical Formula: CuBr<sub>2</sub>

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

#### 2. Hazards Identification

Signal Word: Danger



Hazard Statements: H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

Precautionary Statements: P260: Do not breathe dust/fume/gas/mist/vapors/spray

P264: Wash skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P280: Wear protective gloves/ protective clothing/ eye protection/ face

protection.

P301+P312+P330: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce

vomiting.

P303+P361+P353: IF ON SKIN (or hair): Remove/ Take off

immediately all contaminated clothing. Rinse skin with water/ shower. P304+P340+P310: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a

POISON CENTER or doctor/ physician.

P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

P363: Wash contaminated clothing before reuse.

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations.

HMIS Health Ratings (0-4):

Health: 3
Flammability: 0
Physical: 1

3. Composition	
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Copper (II) bromide (CuBr <sub>2</sub> ):	100
Percentage: CAS #:	100 wt% 7789-45-9
CAS #: EC #:	232-167-2
	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
	Keep patient warm. Seek immediate medical attention.
Ingestion:	Seek immediate medical attention.
Skin:	Immediately wash affected area with mild soap and water. Remove any
Eyes:	contaminated clothing. Seek immediate medical attention. Flush eyes with water, blinking often for several minutes. Remove
Lyes.	contact lenses if present and easy to do. Continue rinsing. Seek
	immediate medical attention.
	5. Firefighting Measures
Flammability:	Non-flammable, except as powder
Entire mining Media.	Research
Extinguishing Media:	No special restrictions—use suitable extinguishing agent for surrounding material and type of fire.
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective
	clothing to prevent contact with skin and eyes. See section 10 for
	decomposition products.
	6. Accidental Release Measures
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in
-	special protection information. Keep unprotected persons away. Isolate
	spill area and provide ventilation. Use neutralizing agent. Vacuum up
	spill using a high efficiency particulate absolute (HEPA) air filter and
T (ID)	place in a closed container for disposal. Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Handle under dry protective gas. Avoid contact with skin and eyes.
G. G. W.	Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store away from
	oxidizing agents, water/moisture, strong bases. Store under dry inert gas. This product is hygroscopic. Protect from humidity and water.
	Store apart from materials and conditions listed in section 10.
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before
. 76	eating and smoking. Do not blow dust off clothing or skin with
	compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below
	threshold limit.

## 8. Exposure Controls and Personal Protection

Permissible Exposure Limits: N/A
Threshold Limit Value: N/A

Special Equipment: Properly operating chemical fume hood designed for hazardous

chemicals and having an average face velocity of at least 100 feet per

minute

Respiratory Protection: Dust Respirator

Protective Gloves: Nitrile rubber gloves with minimum thickness of 0.11 mm

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

## 9. Physical and Chemical Characteristics

Color Black

Form: Powder, Crystalline

Odor: Odorless Water Solubility: Soluble **Boiling Point:** 900°C Melting Point: 498°C Flash Point: N/A Autoignition Temperature: N/A Density: 4.71 g/cc Molecular weight: 223.36 g/mol

### 10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents, water/moisture, bases, alkali metals

Incompatible Conditions: Water/moisture

Hazardous Decomposition Products: Metal oxide fume, hydrogen bromide gas, copper oxides

### 11. Toxicological Information

Potential Health Effects:

Eyes: Causes severe skin burns.
Skin: Causes serious eye damage.

Ingestion: Harmful if swallowed. Swallowing will lead to a strong corrosive effect

on mouth and throat and to the danger of perforation of esophagus and

stomach.

Inhalation: May cause irritation

Chronic: Symptoms of systemic copper poisoning may include: capillary

damage, headache, cold sweat, weak pulse, and kidney and liver damage, central nervous system excitation followed by depression, jaundice, convulsions, paralysis, and coma. Death may occur from shock or renal failure. Chronic copper poisoning is typified by hepatic cirrhosis, brain damage and demyelination, kidney defects, and copper deposition in the cornea as exemplified by humans with Wilson's disease. It has also been reported that copper poisoning has lead to hemolytic anemia and accelerates arteriosclerosis. Blood disorders,

Liver injury may occur. Damage to the lungs.

Signs & Symptoms: Mucosal irritations, Cough, Shortness of breath, Possible damage of

respiratory tract

Aggravated Medical Conditions: N/A

Median Lethal Dose: 536 mg/kg for rat by mouth

Carcinogen: 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.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by

NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by

**OSHA** 

12. Ecological Information

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Aquatic Toxicity:
Persistent Bioaccumulation Toxicity:
Very Persistent Very Bioaccumulative:

N/A N/A

Very Persistent, Very Bioaccumulative:
Notes:

Do not allow product to reach ground water, water course or sewage

system, even in small quantities.

Very toxic for aquatic organisms.

Do not allow material to be released to the environment without proper

governmental permits.

Danger to drinking water if even extremely small quantities leak into

the ground.

Also poisonous for fish and plankton in water bodies. May cause long lasting harmful effects to aquatic life.

Avoid transfer into the environment Very toxic for aquatic organisms.

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

## 14. Transportation Data

Hazardous: Hazardous as powder only.



Hazard Class: 8 Corrosive substances

Packing Group: III UN Number: UN3260

Proper Shipping Name: Corrosive solid, acidic, inorganic, n.o.s. (Copper (II) bromide)

## 15. Regulatory Information

Sec 302 Extremely Hazardous:NoSec 304 Reportable Quantities:N/ASec 313 Toxic Chemicals:Yes

#### 16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

Document Last Revised: 05/07/2019