



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Copper (I) bromide**

PRODUCT NUMBER: 1535

CAS NUMBER: 7787-70-4

SYNONYMS: Cuprous bromide

MANUFACTURER:

Prochem, Inc.
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IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Warning

Hazard Statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary Phrases

P261	Avoid breathing dust/fume/gas/mist/vapor/spray.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

HMIS CLASSIFICATION:

Health: 2 Chronic: * Flammability: 0 Reactivity: 0

NFPA RATING:

Health: 2 Fire: 0 Reactivity Hazard: 0

EYE CONTACT: May cause slight to mild irritation of the eyes.

SKIN CONTACT: May cause slight to mild irritation of the skin.

INHALATION: The material is a fine powder. May be irritating to the nose, mucous membranes, and respiratory tract, and cause metal fume fever.

INGESTION: Ingestion of copper compounds may lead to vomiting, exhaustion, anemia, convulsions, and coma.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: CuBr

Molecular Weight: 143.45

CHEMICAL NAME	CAS#	%
Copper (I) bromide	7787-70-4	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases, seek immediate medical assistance.

INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Not available

AUTO IGNITION TEMPERATURE: None

EXPLOSION LIMITS: None

EXTINGUISHING MEDIUM: Carbon dioxide, extinguishing powder, or water spray. Larger fires use water spray or alcohol resistant foam.

SPECIAL FIRE FIGHTING PROCEDURES: If involved in a fire, fire fighters should be equipped with a NIOSH approved positive self-contained breathing apparatus, flame and chemical resistant clothing, hats, boots, and gloves.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Hydrogen bromide gas and Copper oxide

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Use personal protective equipment. Avoid dust formation. Avoid breathing dust, vapors, mist, or gas. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS: Do not let product enter drains or allow to be released into the environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Small spills can be mixed with vermiculite or sodium carbonate powder and swept up.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Avoid formation of dust and contact with skin and eyes. Provide appropriate exhaust ventilation at places where dust is formed.

CONDITIONS FOR SAFE STORAGE: Store material in a tightly sealed container away from moisture. Keep out of light. This material is air and light sensitive.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION: Always wear approved safety glasses with side shields, or safety goggles, face shield when handling a chemical substance in the laboratory.

SKIN PROTECTION: Chemical resistant gloves.

VENTILATION: Handle in an efficient chemical fume hood.

RESPIRATOR: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Green powder

MOLECULAR WEIGHT: 143.45

BOILING POINT: 1345°C

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES (Cont.)

MELTING POINT: 504° C
SPECIFIC GRAVITY: 4.98 gm/ml
SOLUBILITY: Slightly soluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable under recommended storage conditions.
HAZARDOUS POLYMERIZATION: No hazardous polymerization
CONDITIONS TO AVOID: Contact with moisture, air, and light
INCOMPATIBILITY: Chlorine, oxidizing agents, and active metals.
DECOMPOSITION PRODUCTS: Hydrogen bromide gas and copper oxide.

SECTION 11 TOXICOLOGICAL DATA

CARCINOGENIC EFFECTS: No components of this product present at levels greater than or equal to 0.1% is identified as a confirmed carcinogen by IARC, ACGIH, NTP, and OSHA.
MUTAGENIC EFFECTS: Not available
TETRATOGENIC EFFECTS: Not available

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

No information available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

Non-hazardous material

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory
SARA 313 COMPONENTS: Copper bromide
SARA 311/312 HAZARDS: Acute Health Hazard, Chronic Health Hazard
MASSACHUSETTS RIGHT TO KNOW COMPONENTS: No components are subject to the Massachusetts Right To Know Act.
PENNSYLVANIA RIGHT TO KNOW COMPONENTS: Copper bromide
NEW JERSEY RIGHT TO KNOW COMPONENTS: Copper bromide
CALIFORNIA PROP. 65 COMPONENTS: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16 OTHER INFORMATION

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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