



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. CC 486  
Effective Date May 27, 1999

## SECTION V HEALTH HAZARD DATA

CC 486

**Threshold Limited Value** OSHA Permissible Exposure Limit (PEL): 1 mg/m<sup>3</sup> (TWA) (copper and mists).  
TLV: 1 mg/m<sup>3</sup> (Air) (as copper dusts and mists, as Copper).  
Toxicity data: LDLo (Human-oral) 50 mg/kg.

**Effects of Overexposure** **TARGET ORGANS AFFECTED:** Central nervous system, liver, blood, lungs.  
**INHALATION:** Breathing dusts of copper salts may result in congestion of nasal mucous membranes, pharynx, and possibly ulceration with perforation of the nasal septum.  
**INGESTION:** Single doses of bromide or copper salts are usually rejected by vomiting. Should vomiting not occur, toxic symptomatic reactions may follow. **SKIN CONTACT:** May act as irritants, producing itching eczema. **EYE CONTACT:** Copper salts may produce conjunctivitis or even ulceration of the cornea.

**Emergency and First Aid Procedures** **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.  
**INGESTION:** If swallowed, do NOT induce vomiting. If conscious, give one or two glasses of water to drink and call a physician. Never give anything by mouth to an unconscious person. **SKIN:** Flush with water, then wash with mild soap and water at least twice. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get immediate medical attention.

## SECTION VI REACTIVITY DATA

**Stability** **Unstable** **Conditions to Avoid** Excessive temperature and heat. Strong alkalis.

**Incompatibility (Materials to Avoid)** Strong oxidizing agents; bases, alkalies.

**Hazardous Decomposition Products** May emit toxic copper and hydrogen bromide fumes when heated to high temperatures.

**Hazardous Polymerization** **Conditions to Avoid**  
**May Occur** **Will Not Occur** Not applicable.

## SECTION VII SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled** Ventilate area of leak or spill. Clean-up personnel require protective clothing. In a method that does not generate dust, sweep up material and place in a suitable container for disposal. Wash spill area with soap and water. Do not flush to sewer.

**Waste Disposal Method** Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Dispose of in an approved incinerator or contract with a licensed waste disposal service.

## SECTION VIII SPECIAL PROTECTION INFORMATION

**Respiration Protection (Specify Type)** None should be needed in normal laboratory handling. If dusty or fume conditions prevail, wear a NIOSH/MSHA-approved dust mask or respirator for fumes.

**Ventilation** **Local Exhaust** If dusty or misty. **Special** No.  
**Mechanical (General)** Recommended. **Other** No.

**Protective Gloves** Rubber. **Eye Protection** Chemical safety goggles.

**Other Protective Equipment** Goggles, lab coat, eye wash station, ventilation hood, proper gloves.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated area. Wash thoroughly after handling.  
Keep container tightly closed when not in use.

**Other Precautions** Read label on container before using. Do not wear contact lenses when working with chemicals.

Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Use with adequate ventilation. Wash contaminated clothing before reuse.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

**Revision** No. 7 **Date** 5/27/99 **Approved** Michael Raszeja **Chemical Safety Coordinator** MR

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. \* Hazardous Materials Industrial Standards. Printed on recycled paper.

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

<b>Product</b>	CUPRIC BROMIDE
<b>Chemical Synonyms</b>	Copper (II) Bromide
<b>Formula</b>	CuBr <sub>2</sub>
<b>Unit Size</b>	up to 2.5 Kg.
<b>C.A.S. No.</b>	7789-45-9

CHEMTREC  
800-424-9300  
Day 716-226-6177

NFPA HAZARD RATING  
LEAST SLIGHT MODERATE HIGH EXTREME  
0 1 2 3 4

Health	2
Fire	0
Reactivity	0

HMIS \*  
HIGH EXTREME  
3 4

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Cupric Bromide	100%	None established.

**WARNING! IRRITANT! HARMFUL IF SWALLOWED OR INHALED.**

**IRRITANT TO SKIN, EYES AND MUCOUS MEMBRANES. HYGROSCOPIC.**

## SECTION III PHYSICAL DATA

Melting Point (°F)	498°C (928°F)	Specific Gravity (H <sub>2</sub> O = 1)	4.71 @ 20°C
Boiling Point (°F)	900°C (1652°F)	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (≈1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	Very soluble in water.		
Appearance & Odor	Glistening, grayish black crystals; slight odor of bromine.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	Non-flammable.	<b>Flammable Limits in Air % by Volume</b>	N/A	<b>Lower</b>	<b>Upper</b>
<b>Extinguisher Media</b>	Use any means suitable for extinguishing surrounding fire.				

### SPECIAL FIREFIGHTING PROCEDURES

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

### UNUSUAL FIRE AND EXPLOSION HAZARDS

**FIRE:** Not considered to be a fire hazard. **EXPLOSION:** Not considered to be an explosion hazard. Fire or excessive heat may produce hazardous decomposition products of copper and bromine.

D.O.T. NON-REGULATED

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20