



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/m³ (TWA) (copper and mists).
TLV: 1 mg/m³ (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.
	Stable	X		

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

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

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

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.
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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
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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

Product	CUPRIC BROMIDE	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * HEALTH FIRE REACTIVITY 2 0 0
Chemical Synonyms	Copper (II) Bromide	
Formula	CuBr ₂	
Unit Size	up to 2.5 Kg.	
C.A.S. No.	7789-45-9	

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 (H₂O = 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

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
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Extinguisher Media 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