

WARD'S MATERIAL SAFETY DATA SHEET

WARD'S National Science Establishment, Inc.
 990 Madison Avenue
 Massachusetts, Ontario L4K 1K1
 MSDS No. 89-148
 Effective Date July 1, 1986

SECTION I NAME

Product	BURET SOLUTION B	24 HOUR EMERGENCY ASSISTANCE
Chemical Name	Cupric Sulfate Solution 3%	CHEMTREC 800-424-9300
Formula	CuSO4 water solution	DW 716-228-8177
Net Size	100 ml, to 4 liters	HW 716-334-4222
U.S. No.	7739-98-7	HAZARD RATING
		LEAST SLIGHT MODERATE HIGH EXTREME
		0 1 2 3 4

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)	%	TLV Units
Cupric Sulfate water solution	3%	1 mg/m ³ Dust and dist. as copper.

WARNING: HARMFUL IF SWALLOWED.
 IRRITANT TO SKIN AND EYES.

SECTION III PHYSICAL DATA

Melting Point (°F)	Freezes approx. 0°C	Specific Gravity (M.O. = 1) approx. 1.0
Boiling Point (°F)	Approx. 100°C	Percent Volatile by Volume (%)
		97%
Major Pressure (mm Hg) (water)		Evaporation Rate (Ethyl)
		= 1 greater than 1
Major Density (lb = 1) (water)	0.7 (water)	
Solubility in Water	Complete	
Appearance and Odor	Clear, light blue liquid; no odor.	

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable liquid (NA)	Flammable Limit in Air (% by Volume)	Lower	Upper
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ingulisher: Dry media suitable for extinguishing supporting fire.

SECTION V SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH-approved self-contained breathing apparatus and protective clothing.

SECTION VI USUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

T. CORROSIVE LIQUID, N.O.S.

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

SECTION V HEALTH HAZARD DATA

Threshold Limited Value 1 mg/m³ as copper (ACGIH, 1984)

SECTION VI Effects of Overexposure

May be harmful if swallowed. Causes skin and eye irritation.

SECTION VII Emergency and First Aid Procedures

IF SWALLOWED: If conscious, give one or two glasses of water to drink. Induce vomiting and call physician immediately. IN CASE OF CONTACT: With skin or eyes, flush thoroughly with water. For eyes, get medical attention.

SECTION VIII REACTIVITY DATA

Stability	Unstable	Conditions to Avoid
	Stable	Excessive temperature and heat.

Incompatibility (Materials to avoid) Oxidizing agents.

SECTION IX Hazardous Decomposition Products

Thermal decomposition will produce cupric oxide dust and oxides of sulfur.

SECTION X Hazardous Polymerization

Will Not Occur

SECTION XI Steps to be taken in case material is released or spilled

Absorb in vermiculite. Scoop up and place in a suitable container.

SECTION XII Waste Disposal Method

Dispose of in an approved chemical landfill.

SECTION XIII Discharge, treatment, or disposal may be subject to federal, state, or local laws.

SECTION XIV SPECIAL PROTECTION INFORMATION

Respiratory Protection: None should be required in normal handling at room temperature. If misty conditions should prevail, work in ventilation hood or wear a NIOSH-approved respirator.

SECTION XV Ventilation

Local Exhaust	NOT REQUIRED	Special	NO
Mechanical/General	NOT REQUIRED	Other	NO

SECTION XVI Protective Gloves

Rubber

SECTION XVII Other Protective Equipment

Goggles, smock, apron, proper gloves.

SECTION XVIII Eye Protection

Chemical safety glasses.

SECTION XIX Precautions to be Taken in Handling and Storing

Store in a cool place. Wash thoroughly after handling.

SECTION XX Other Precautions

Keep container tightly closed when not in use. Read label on container before using.

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

Rev. No. 11/2/87 Date 11/2/87 Approved *Wendell E. Powell* Chemical Safety Coordinator

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