

WARD'S

Natural Science Establishment Inc.
 800 Bedford Avenue, 4th Fl., Mt.
 Pleasant, NY 11662-9012
 Tel: 353-2502
 Massachusetts Permit 142, M1

MSDS No. **BR-150**
 Effective Date **July 1, 1986**

MATERIAL SAFETY DATA SHEET

SECTION I NAME

24 HOUR EMERGENCY ASSISTANCE

Product	BIURET TEST REAGENT
Chemical Synonyms	Biuret Solution for protein test.
Formula	Mixture-see section 11.
Units) Size	100 ml. to 4 Lt.
C.A.S. No.	None listed.

	CHEMTREC 800-424-9300	Health	3
	NFPA HAZARD RATING LEAST SUGHT MODERATE HIGH EXTREME 0 1 2 3 4	Fire Reactivity 0 2	Health Fire Reactivity 3 0 2

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)	Potassium Hydroxide (KOH), Cupric Sulfate (Cu SO ₄)	%	TLV Units
		10%	See Section V.
		0.1%	1 mg/m ³ as copper mist

SECTION III PHYSICAL DATA

Melting Point (°F)	Freezes approx. 0°C.	Specific Gravity (H ₂ O = 1)	Approx. 1.1
Boiling Point (°F)	Approx. 110-120°C.	Percent Volatile by Volume (%)	89%
Vapor Pressure (mm Hg)	14 mm (water)	Evaporation Rate	Greater than 1.
Vapor Density (Air = 1)	0.7 (water)		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-combustible (NA)	Flammable Limits in Air NA	Lower Upper
Extinguisher	If involved in a fire, flood with water, taking care not to splatter or splash.		

SPECIAL FIREFIGHTING PROCEDURES

This material is highly corrosive. In fire conditions, wear a NIOSH-approved self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Will release flammable and explosive hydrogen gas when in contact with aluminum, lead, tin, zinc and other alloys.

D.O.T. **CORROSIVE LIQUID, N.O.S.**

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

SECTION V HEALTH HAZARD DATA

THM Computed: 20 mg/m³. Based on data (ACGIH 1983-84)

Effects of Overexposure

DANGER! CAUSES SEVERE BURNS
MAY BE FATAL IF SWALLOWED
 Avoid contact with skin, eyes and mucous membranes.

Emergency and First Aid Procedures

SKIN: Flood with water, then wash with vinegar.
EYES: Flush with water for 15 minutes. Get prompt medical attention.
INTERNAL: Drink several glasses of water. Follow with citrus juice if available. Call a physician immediately.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Acids, excessive temperature and heat.
	Stable		
Incompatibility (Materials to avoid)	Common metals and their alloys; acid and their anhydrides; easily oxidizable compounds.		

Hazardous Decomposition Products

Potassium and copper oxide dust.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled
 Wear proper safety equipment. Dilute with water and neutralize with 6 molar Hydrochloric acid or sodium bisulfate.

Waste Disposal Method

Neutralize with sodium bisulfate and flush to sewer with copious amounts of water.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection	None should be necessary in normal laboratory handling. If necessary, work in a ventilation hood or wear a NIOSH-approved respirator.		
Ventilation	Local Exhaust	Recommended	Special
Protective Gloves	Mechanical (General)	Recommended	Other
Other Protective Equipment	goggles, smock, apron, proper gloves and eye wash station.		

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing
 Store in a cool, dry place away from acids and acid fumes. Wash thoroughly after handling.

Other Precautions

Read label on container before using.

Rev. No. No. 1	Date: 12/87	Approved	Alexander Piccirilli	Chemical Safety	Ap
----------------	-------------	----------	----------------------	-----------------	----

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 competence of information from all sources to assure proper use of these materials and the safety and health of employees.