



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No.: BB0150  
Effective Date: January 1, 2007

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

<b>Product</b>	Biuret Test Reagent
<b>Chemical Synonyms</b>	Biuret Solution For Protein Test *
<b>Formula</b>	Mixture - See Section II.
<b>Unit Size</b>	up to 3.785 Lt.
<b>C.A.S. No.</b>	Mixture - See Section II.

	<b>CHEMTREC</b> 800-424-9300 Day 585-226-6177	<b>Health</b>	3
	<b>NFPA</b>	<b>Fire</b>	0
<b>HAZARD RATING</b>		<b>Reactivity</b>	2
MINIMAL 0	SLIGHT 1	<b>HMIS *</b>	
MODERATE 2	SERIOUS 3	SEVERE 4	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Sodium hydroxide: (CAS No.: 1310-73-2)	6.42%	C 2 mg/m <sup>3</sup>
Potassium sodium tartrate: (CAS No.: 6381-59-5)	1.65%	N/A
Cupric sulfate: (CAS No.: 7758-99-8)	1.18%	1 mg/m <sup>3</sup>
Potassium iodide: (CAS No.: 7681-11-0)	0.35%	N/A
Ethylenediaminetetraacetic acid: (CAS No.: 6381-92-6)	0.02%	N/A
Water: (CAS No.: 7732-18-5)	90.38%	N/A

**DANGER! CORROSIVE! POISON!**

## SECTION III PHYSICAL DATA

Melting Point (°F)	Freezes approx. 0°C (32°F)	Specific Gravity (H <sub>2</sub> O = 1)	Approx. 1.1
Boiling Point (°F)	Approx. 110-120°C (230-248°F)	Percent Volatile by Volume (%)	89%
Vapor Pressure (mm Hg)	14 (water)	Evaporation Rate (Water = 1)	> 1
Vapor Density (Air=1)	0.7 (water)		
Solubility in Water	Complete.		
Appearance & Odor	Clear, light blue liquid; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	Non-combustible.	<b>Flammable Limits in Air % by Volume</b>	N/A	Lower	Upper
<b>Extinguisher Media</b>	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/MSHA-approved self-contained breathing apparatus and full protective clothing.

(2004 EMERGENCY RESPONSE GUIDEBOOK, RSPA P 5800.9, GUIDE PAGE NO. 154)

### UNUSUAL FIRE AND EXPLOSION HAZARDS

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

## SECTION V HEALTH HAZARD DATA

BB0150

**Threshold Limited Value** None established for this mixture. (ACGIH 2001)

**Effects of Overexposure** **DANGER! CAUSES SEVERE BURNS TO SKIN, EYES AND MUCOUS MEMBRANES. MAY BE FATAL IF SWALLOWED.**  
Avoid contact with skin, eyes and mucous membranes. Exercise appropriate procedures to minimize potential hazards. Target organs: None known.

**Emergency and First Aid Procedures** **INGESTION:** Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. **EYES:** Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Acids, excessive temperature and heat.
	<b>Stable</b>	X		

**Incompatibility (Materials to Avoid)** Common metals and their alloys; acid and their anhydrides; easily oxidizable compounds.

**Hazardous Decomposition Products** Thermal decomposition will produce fumes of sulfur dioxide (SO<sub>2</sub>), iodine, copper, carbon dioxide and carbon monoxide.

<b>Hazardous Polymerization</b>	<b>Conditions to Avoid</b>	
	<b>May Occur</b>	<b>Will Not Occur</b>
		X

Not applicable.

## 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. Flush spill area with water.

**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.

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

## SECTION VIII SPECIAL PROTECTION INFORMATION

**Respiration Protection (Specify Type)** None should be necessary in normal laboratory handling. If necessary, work in a ventilation hood or wear a NIOSH/MSHA-approved respirator.

<b>Ventilation</b>	<b>Local Exhaust</b>	Recommended.	<b>Special</b>	No.
	<b>Mechanical (General)</b>	Recommended.	<b>Other</b>	No.

**Protective Gloves** Rubber. **Eye Protection** Goggles or faceshield.

**Other Protective Equipment** Goggles, smock, apron, proper gloves, eye wash station, ventilation hood.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool, dry place away from acids and acid fumes. Keep container tightly closed when not in use. Wash thoroughly after handling.

**Other Precautions** Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Use extreme care when heating this material. Avoid spattering. Wear safety goggles and/or face shield. Avoid contact with skin, eyes and mucous membranes. Remove and wash contaminated clothing.

<b>Revision No.</b> 12	<b>Date</b> 01/01/07	<b>Approved</b> James A. Bertsch	<b>Chemical Safety Coordinator</b> JAB
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**D.O.T.** Corrosive liquids, n.o.s., (Sodium hydroxide), 8, UN1760, PG II, Ltd Qty ≤ 1 Lt.

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