

# IMPORTANT

## MATERIAL SAFETY DATA SHEET

READ CAREFULLY BEFORE USING CHEMICAL  
OSHA requires that this form be kept on file.

Product No. KM 785 M

Product Name BIURET SOLUTION

24 HOUR EMERGENCY ASSISTANCE			
CHEMTRAC 800-424-9300			
HAZARD RATING	Health Hazard	3	
FLAMMABILITY	Flammability	0	
REACTIVITY	Reactivity	1	

### SECTION I NAME

Chemical Synonyms Biuret Reagent Solution

Formula N/A (solution)

C.A.S. No. See Section II

### SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)	%	PEL	TLV units
Copper Sulfate* CAS# 7758-98-7	<1	1 mg/m <sup>3</sup> (as Cu)	1 mg/m <sup>3</sup>
Sodium Hydroxide* CAS# 1310-73-2	28	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>
Water (nonhazardous)			

\* chemical subject to the reporting requirements of SARA Title III.

### SECTION III PHYSICAL DATA

Melting Point (°F)	N/A	Specific Gravity (H <sub>2</sub> O=1)	N/A
Boiling Point (°F)	N/A	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	Complete		
Appearance & Odor	Water-white solution.		

### SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Nonflammable	Flammable Limits in Air % by Volume	Lower	Upper
Extinguisher	Suitable to extinguish the supporting flame.		N/A	N/A

#### Special Firefighting Procedures:

Wear self-contained breathing apparatus. Use water spray to cool containers involved to help prevent rupture.

#### Unusual Fire and Explosion Hazards:

Sodium Hydroxide will react with metals such as aluminum, tin and zinc to generate flammable and explosive hydrogen gas.

D.O.T. Sodium hydroxide solution, 8, UN1824, PGII

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

### SECTION V HEALTH HAZARD DATA

Threshold Limit Value  
See Section II

#### Effects of Overexposure

Sodium hydroxide is a strong alkali and is destructive of all human tissue it contacts, giving severe burns. Eye contact will produce severe permanent injury. Inhalation of mist or spray can injure the entire respiratory tract.

#### Emergency and First Aid Procedures:

Get medical attention immediately. Ingestion: Dilute by drinking water. Do not induce vomiting. Get medical attention. Inhalation: Remove to fresh air. Keep person warm and at rest. Eye: Wash eyes immediately with water including under eyelids. Skin: Flush with water, remove contacted clothing under the shower.

### SECTION VI REACTIVITY DATA

Stability	Conditions to Avoid
Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>	N/A
Incompatibility (Materials to Avoid)	Acids, organics such as nitrocarbons and halocarbons, leather, wood, aluminum, tin, zinc.
Hazardous Decomposition Products	None
Hazardous Polymerization	Conditions to Avoid
May Occur <input type="checkbox"/> Will Not Occur <input checked="" type="checkbox"/>	N/A

### SECTION VII SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled

Pick up spill with vacuum equipment (alkali resistant) for disposal or flush to holding area with water. Neutralize residues with dilute acid and rinse 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. Dispose of in accordance with applicable Federal, state and local regulations.

### SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection NIOSH approved respirator above exposures of 2 mg/m<sup>3</sup>

Ventilation	Local Exhaust	General Exhaust	Special
	X		Other

Protective Gloves	Appropriate chemical resistant gloves	Eye Protection	Safety goggles
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### SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storage

Store in cool, dry area. Protect from physical damage. Wash thoroughly after handling.

#### Other Precautions:

Have abundant running water available where material is stored or handled.

Approved by Steven C. Quest Effective Date 3/30/2004

For laboratory use only. Not for drug, food or household use. Keep out of reach of children. This information contained herein is furnished without warranty of any kind. Emergency should use this information as a supplement to other information obtained by other means and make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees.