

IMPORTANT MATERIAL SAFETY DATA SHEET

88771

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
CHEMTREC 800-424-9300
HAZARD RATING

4-EXTREME	Health Hazard	3
3-SEVERE	Flammability	0
2-MODERATE	Reactivity	1
1-SLIGHT		
0-MINIMAL		

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 ³ (as Cu)	1 mg/m ³
Sodium Hydroxide* CAS# 1310-73-2	28	2 mg/m ³	2 mg/m ³
Water (nonhazardous)			

SECTION III PHYSICAL DATA

Melting Point (°F)	N/A	Specific Gravity (H ₂ 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
		N/A	N/A

Extinguisher **Suitable to extinguish the supporting flame.**

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, PGI**

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

Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>	Conditions to Avoid 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 N/A
May Occur <input type="checkbox"/> Will Not Occur <input checked="" type="checkbox"/>	

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 (Specify Type)	NIOSH approved respirator above exposures of 2 mg/m ³		
Ventilation	Local Exhaust	X	Special
Protective Gloves	Mechanical (General)	Other
Other Protective Equipment	Appropriate chemical resistant gloves		Eye Protection
	Lab coat or apron and rubber boots if necessary		Safety goggles

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storage
 Keep container tightly closed when not in use.
 Store in cool, dry area. Protect from physical damage. Wash thoroughly after handling.

Other Precautions

Read label on container before using. Do not wear contact lenses when working with chemicals.
 Have abundant running water available where material is stored or handled.

Approved by **Steven C. Quant** Effective Date **3/30/2004** For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

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