MATERIAL SAFETY DATA SHEET

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MSDS No. BB 90
Effective Date February 24, 1998

SECTION I NAME

24 HOUR EMERGENCY ASSISTANCE

CHEMTREC 800-424-9300
Day 716-226-6177

Product	BENEDICT'S REAGENT, QUALITATIVE SOLN.
Chemical Synonyms	Benedict's Sugar Test Reagent
Formula	Mixture See Section II
Unit Size	up to 4 Lt.
C.A.S. No.	Mixture See Section II

NFPA HAZARD RATING

Health	1
Fire	0
Reactivity	1

HMIS *

LEAST SLIGHT MODERATE HIGH EXTREME
0 1 2 3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Cupric Sulfate, (CAS No. 7758-98-7)	1.5%	See Section V.
Sodium Carbonate, (CAS No. 497-19-8)	8.7%	None established.
Sodium Citrate, (CAS No. 68-04-2)	15.1%	None established.
Water: (CAS No. 7732-18-5)	75%	None established.

CAUTION! MAY BE HARMFUL IF SWALLOWED.

SECTION III PHYSICAL DATA

Melting Point (°F)	N/A	Specific Gravity (H_2O = 1)	1.145 at 20°C
Boiling Point (°F)	Approx. 110-120°C (230-248°F)	Percent Volatile by Volume (%)	75%
Vapor Pressure (mm Hg)	14 mm (water)	Evaporation Rate (Ether =1)	Greater than 1.
Vapor Density (Air=1)	0.7 (water)		
Solubility in Water	Complete.		
Appearance & Odor	Clear, light blue, water solution; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable (NA)	Flammable Limits in Air % by Volume	Lower	Upper
		NA	--------	--------
Extinguisher Media	Use any media suitable for extinguishing the supporting fire.			

SPECIAL FIREFIGHTING PROCEDURES

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

UNUSUAL FIRE AND EXPLOSION HAZARDS

When heated to decomposition, it burns and emits acrid fumes.

D.O.T. NON-REGULATED.

SECTION V HEALTH HAZARD DATA BB 90

Threshold Limited Value

None established. TWA COPPER As fume 0.2 mg/m^3; dust and mists 1 mg/m^3. (ACGIH 1992-93).

Effects of Overexposure

EYES: Contact with solution may cause eye irritation. SKIN: Prolonged or repeated skin contact may cause irritation. INGESTION: May be harmful if swallowed. INHALATION: As mist may cause irritation to respiratory tract.

Emergency and First Aid Procedures

EYES: Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. SKIN: Flush thoroughly with water, then wash with mild soap and water. INGESTION: If swallowed, if conscious, give one or two glasses of water to drink and call a physician immediately. Never give anything by mouth to an unconscious person. INHALATION AS MIST: Remove to fresh air. Treat symptomatically. If discomfort or illness develops, get medical attention.

SECTION VI REACTIVITY DATA

Stability			Conditions to Avoid
	Unstable		Excessive temperature and heat.
	Stable	X	

Incompatibility (Materials to Avoid) Acids and strong oxidizers.

Hazardous Decomposition Products Thermal decomposition or burning may produce carbon dioxide and/or carbon monoxide.

Hazardous Polymerization		Conditions to Avoid
May Occur	Will Not Occur	Not applicable.
	X	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Absorb spill in vermiculite, sand, earth, paper towel and place in a suitable container for disposal. Wash spill area with soap and 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 an approved chemical landfill or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None needed in normal laboratory handling. If misty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved respirator.

Ventilation				
	Local Exhaust	None required.	Special	No.
	Mechanical (General)	None required.	Other	No.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.

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

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

Keep container tightly closed when not in use.

Store in a cool, dry place away from acids and acid fumes. Wash thoroughly after handling. Remove and wash contaminated clothing.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals.

Avoid contact with eyes and prolonged contact with skin. Wear proper protective clothing, eye shield during the use of this material in the event of splattering.

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

Revision No. 6	Date 2/24/98	Approved Michael Raszeja	Chem. Safety Coordinator MR

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