



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.  
Avon, New York 14414  
(716) 226-6177

MSDS No. BB 95  
Effective Date January 27, 1999

## SECTION V HEALTH HAZARD DATA

BB 95

### Threshold Limited Value

None established.

### 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. Exercise appropriate procedures to minimize potential hazards.

### Emergency and First Aid Procedures

**SKIN:** Flush thoroughly with water, then wash with mild soap and water. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. **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. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

## SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Excessive temperature and heat to cause evaporation.
	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, nitrous oxides, cyanides.
----------------------------------	---

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 with an inert dry material, sweep up 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 accordance with federal, state and local regulations.
-----------------------	---

## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)		None required in normal laboratory use.			
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	Store in a cool place, away from acid and acid fumes. Wash thoroughly after handling.
---	--

Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before reuse.
-------------------	---

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

Revision	No. 5	Date	1/27/99	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
----------	-------	------	---------	----------	-----------------	-----------------------------	----

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 completeness of information from all sources to assure proper use of these materials and the safety and health of employees. \* Hazardous Materials Industrial Standards. Printed on recycled paper.

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	BENEDICT'S REAGENT QUANTITATIVE
Chemical Synonyms	Benedict's Sugar Test Reagent
Formula	This is a mixture. See Section II
Unit Size	up to 4 Lt.
C.A.S. No.	Not listed.

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

NFPA HAZARD RATING  
LEAST SLIGHT MODERATE HIGH EXTREME  
0 1 2 3 4

Health	2
Fire	0
Reactivity	1

HMIS \*

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
* CONTAINS: Cupric Sulfate (CuSO <sub>4</sub> ): (CAS No. 7758-98-7)	1.90%	1 mg/m <sup>3</sup> as Copper.
Sodium Carbonate (Na <sub>2</sub> CO <sub>3</sub> ): (CAS No. 497-19-8)	11.99%	None established.
Potassium Thiocyanate (KCNS): (CAS No. 333-20-0)	7.38%	None established.
Potassium Ferrocyanide (K <sub>4</sub> Fe(CN) <sub>6</sub> ): (CAS No. 13943-58-3)	0.01%	None established.

## SECTION III PHYSICAL DATA

Melting Point (°F)	Solution (NA).	Specific Gravity (H <sub>2</sub> O = 1)	1.145 @ 20°C
Boiling Point (°F)	Approx. 110-120°C (230-248°F)	Percent Volatile by Volume (%)	Approx. 98%
Vapor Pressure (mm Hg)	14 mm (water).	Evaporation Rate (Ether = 1)	Greater than 1.
Vapor Density (Air=1)	0.7 mm (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.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	Any media suitable for extinguishing supporting fire.				

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

\* CONTAINS CONT:  
Sodium Citrate: (CAS No. 68-04-2)...11.99%  
Water: (CAS No. 7732-18-5)...65.32%

UNUSUAL FIRE AND EXPLOSION HAZARDS
------------------------------------

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

D.O.T.	NON-REGULATED.
--------	----------------

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