



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

221 Rochester Street  
Avon, New York 14414-9409  
(585) 226-6177

MSDS No.: BB0090  
Effective Date: January 1, 2007

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

<b>Product</b>	Benedict's, Qualitative Solution
<b>Chemical Synonyms</b>	Benedict's Sugar Test Reagent
<b>Formula</b>	Mixture See Section II
<b>Unit Size</b>	up to 3.785Lt.
<b>C.A.S. No.</b>	Mixture See Section II

**CHEMTREC**  
800-424-9300  
Day 585-226-6177

**NFPA**

Health	1
Fire	0
Reactivity	1

**HMIS \***

MINIMAL	SLIGHT	MODERATE	SERIOUS	SEVERE
0	1	2	3	4

HAZARD RATING

## 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 <sub>2</sub> O = 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

<b>Flash Point (Method Used)</b>	Non-flammable.	<b>Flammable Limits in Air % by Volume</b>	N/A	Lower	Upper
<b>Extinguisher Media</b>	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.**

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

## SECTION V HEALTH HAZARD DATA

BB0090

<b>Threshold Limited Value</b>	None established. TWA COPPER As fume 0.2 mg/m <sup>3</sup> ; dust and mists 1 mg/m <sup>3</sup> . (ACGIH 1992-93).
--------------------------------	--------------------------------------------------------------------------------------------------------------------

<b>Effects of Overexposure</b>	<b>EYES:</b> Contact with solution may cause eye irritation. <b>SKIN:</b> Prolonged or repeated skin contact may cause irritation. <b>INGESTION:</b> May be harmful if swallowed. <b>INHALATION:</b> As mist may cause irritation to respiratory tract. Target organs: Liver, kidneys.
--------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<b>Emergency and First Aid Procedures</b>	<b>INGESTION:</b> 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. <b>EYES:</b> 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. <b>SKIN:</b> Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. <b>INHALATION:</b> 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>	Excessive temperature and heat.
	<b>Stable</b>	X		

<b>Incompatibility (Materials to Avoid)</b>	Acids and strong oxidizers.
---------------------------------------------	-----------------------------

<b>Hazardous Decomposition Products</b>	Thermal decomposition or burning may produce carbon dioxide and/or 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

<b>Steps to be taken in case material is released or spilled</b>	Absorb spill in vermiculite, sand, earth, paper towel and place in a suitable container for disposal. Wash spill area with soap and water.
------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------

<b>Waste Disposal Method</b>	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

<b>Respiration Protection (Specify Type)</b>	None needed in normal laboratory handling. If misty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved respirator.		
<b>Ventilation</b>	<b>Local Exhaust</b>	None required.	<b>Special</b>
	<b>Mechanical (General)</b>	None required.	<b>Other</b>
			No.
			No.

<b>Protective Gloves</b>	Rubber.	<b>Eye Protection</b>	Chemical safety glasses.
--------------------------	---------	-----------------------	--------------------------

<b>Other Protective Equipment</b>	Goggles, smock, apron, proper gloves, eye wash station.
-----------------------------------	---------------------------------------------------------

## SECTION IX SPECIAL PRECAUTIONS

<b>Precautions to be Taken in Handling &amp; Storing</b>	Store in a cool, dry place away from acids and acid fumes. Wash thoroughly after handling. Remove and wash contaminated clothing.
----------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------

<b>Other Precautions</b>	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.
--------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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.

<b>Revision No.</b> 8	<b>Date</b> 01/01/07	<b>Approved</b> James A. Bertsch	<b>Chemical Safety Coordinator</b> JAB
-----------------------	----------------------	----------------------------------	----------------------------------------

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.