



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. UU 70  
Effective Date January 30, 1998

## SECTION V HEALTH HAZARD DATA

UU 70

**Threshold Limited Value** None assigned to any component in this series of Artificial Urine solutions. (ACGIH 1992-93).

**Effects of Overexposure** (Acute and Chronic) Avoid contact with skin, eyes and mucous membranes. Prolonged or repeated contact may cause irritation. **EYES:** Contact may cause irritation. **INGESTION:** May be harmful if swallowed. **SKIN:** Prolonged contact may cause irritation. Exercise appropriate procedures to minimize potential hazards.

**Emergency and First Aid Procedures**  
**INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting and call a physician. Never give anything by mouth to an unconscious person. **SKIN:** Flush with water, then wash with mild soap and water. **EYES:** Flush thoroughly with water, lifting upper and lower eyelids occasionally. If irritation develops or persists, get medical attention.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	High temperature and heat.
	<b>Stable</b>	X		

**Incompatibility (Materials to Avoid)** Strong oxidizers.

**Hazardous Decomposition Products** When heated to decomposition may emit carbon dioxide and/or carbon monoxide. Solution (C) will yield a very small amount of oxides of phosphorus.

<b>Hazardous Polymerization</b>		<b>Conditions to Avoid</b>	Not applicable.
<b>May Occur</b>	<b>Will Not Occur</b>		
	X		

## SECTION VII SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled** Flush the aqueous solution down drain with plenty of 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.

Flush the aqueous solution down drain with plenty of water.

## 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.

<b>Ventilation</b>	<b>Local Exhaust</b>	None needed.	<b>Special</b>	No.
	<b>Mechanical (General)</b>	None needed.	<b>Other</b>	No.

<b>Protective Gloves</b>	Rubber.	<b>Eye Protection</b>	Chemical safety glasses.
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**Other Protective Equipment** Lab coat, apron, eye wash station, proper gloves.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool place. Wash thoroughly after handling.  
Keep container tightly closed when not in use.

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

Avoid contact with skin, eyes and mucous membranes. Remove and wash contaminated clothing.

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

<b>Revision</b> No. 3	<b>Date</b> 1/30/98	<b>Approved</b> Michael Raszeja	<b>Chemical Safety Coordinator</b> MR
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## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

<b>Product</b>	ARTIFICIAL URINE		
<b>Chemical Synonyms</b>	Simulated Urine - 6 Studies		
<b>Formula</b>	Artificial Urine - Control, (A) Vitamin C, (B) Ketone, (C) Phosphates, (D) Glucose, (E) Albumin		
<b>Unit Size</b>	up to 4 Lt.		
<b>C.A.S. No.</b>	Mixture. See Section II.		

 <b>CHEMTREC</b> <b>800-424-9300</b> Day 716-226-6177	<b>Health</b>	1
	<b>Fire</b>	0
	<b>Reactivity</b>	0

<b>NFPA HAZARD RATING</b>				
LEAST	SLIGHT	MODERATE	HIGH	EXTREME
0	1	2	3	4

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Contains: Control - Tegosept M: (CAS No. 99-76-3) 0.1%, Alizarin Yellow: (CAS No. 178-34-9) 0.0032%,		None established.
Thymol: (CAS No. 89-83-8) <0.001%; Studies will contain (A) Control plus Vitamin C: (CAS No. 50-81-7),		
(B) Control plus Acetone: (CAS No. 67-64-1) 5%, (C) Control plus Sodium Phosphate Dibasic: (CAS No. 7558-79-4) 5%, (D)		
Control plus Glucose: (CAS No. 492-61-5) 1.0%, (E) Control plus Albumin: (CAS No. 9008-46-8) 0.2%		

## SECTION III PHYSICAL DATA

<b>Melting Point (°F)</b>	Approx. 0°C (32°F)	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	Approx. 1.0
<b>Boiling Point (°F)</b>	Approx. 100°C (212°F)	<b>Percent Volatile by Volume (%)</b>	Approx. 99%
<b>Vapor Pressure (mm Hg)</b>	14 mm (water)	<b>Evaporation Rate (Ether = 1)</b>	Greater than 1.
<b>Vapor Density (Air=1)</b>	0.7 (water)		
<b>Solubility in Water</b>	Complete.		
<b>Appearance &amp; Odor</b>	Clear, yellow color, water like liquid; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

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

### SPECIAL FIREFIGHTING PROCEDURES

If involved in fire situation, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

In fire conditions resulting in the evaporation of the water of solution hazardous decomposition products may be produced as dust or fume.

D.O.T. NON-REGULATED.

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