



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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

MSDS No. RR 40  
Effective Date April 23, 1999

## SECTION V HEALTH HAZARD DATA

RR 40

### Threshold Limited Value

None established by (ACGIH 1992-93).

### Effects of Overexposure

**INHALATION:** Non-hazardous. **EYES:** No specific hazard is known. However, any material that contacts the eye may be irritating. **SKIN:** Not hazardous. None expected at this concentration. **INGESTION:** Not hazardous at this concentration.

### Emergency and First Aid Procedures

**EYES:** Flush thoroughly with water. If irritation develops or persists, get medical attention. **SKIN:** Flush with soap and water.

## SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid
	Stable	X None known.

Incompatibility (Materials to Avoid)	To maintain physiological characteristics of this solution, contact with other materials, dilution or contamination should be avoided.
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Hazardous Decomposition Products	Thermal decomposition will produce hydrogen chloride fumes.
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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	If spilled, flush spill to sewer with copious amounts of water.
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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.
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Flush to sewer with copious amounts of water.

## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)		None needed.			
Ventilation	Local Exhaust	None needed.	Special	No.	
	Mechanical (General)	None needed.	Other	No.	
Protective Gloves		None needed.		Eye Protection	Chemical safety glasses
Other Protective Equipment	Lab coat or apron, eye wash station.				

## 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.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.  This solution is non-sterile, simulated biological material. Remove and wash contaminated clothing.
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For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision	No. 5	Date	4/23/99	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	RINGER'S SOLUTION, FROG
Chemical Synonyms	Physiological Saline, Frog
Formula	Mixture.
Unit Size	up to 3.785 Lt.
C.A.S. No.	Mixture.

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

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

Health 0  
Fire 0  
Reactivity 0

HMIS \*  
3 4

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Sodium Chloride: (CAS No. 7647-14-5)	0.73%	None established.
Potassium Chloride: (CAS No. 7447-40-7)	0.02%	None established.
Calcium Chloride: (CAS No. 10043-52-4)	0.01%	None established.
Sodium Bicarbonate: (CAS No. 144-55-8)	0.02%	None established.
Water: (CAS No. 7732-18-5)	99.22%	None established.

LOW HAZARD FOR USUAL LABORATORY HANDLING; NON-TOXIC.

## SECTION III PHYSICAL DATA

Melting Point (°F)	Approx. 0°C (32°F)	Specific Gravity (H <sub>2</sub> O = 1)	Approx. 1.0 at 20°C
Boiling Point (°F)	Approx. 100°C (212°F)	Percent Volatile by Volume (%)	99.22%
Vapor Pressure (mm Hg)	14 mm (water)	Evaporation Rate (water = 1)	< 1
Vapor Density (Air=1)	0.7 (water)		
Solubility in Water	Complete.		
Appearance & Odor	Clear, color liquid; 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	Use any media suitable for extinguishing supporting fire.				

### SPECIAL FIREFIGHTING PROCEDURES

None should be required.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

None expected. Concentration of content materials are very low to produce hazardous conditions.

D.O.T. NON-REGULATED.

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