



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. IX 233  
Effective Date March 18, 1999

## SECTION V HEALTH HAZARD DATA

IX 233

**Threshold Limited Value** None established for 10% Isopropyl Alcohol in water. For Pure Isopropyl Alcohol: TWA 400 ppm (SKIN); 980 mg/m<sup>3</sup> (AIR). Human, oral LDLo 2371 mg/kg.

**Effects of Overexposure** **INGESTION AND INHALATION:** Data is not available for this 10% solution of Isopropyl Alcohol. Large quantities of the vapor may cause flushing, headache, dizziness, mental depression, nausea, vomiting, narcosis, anesthesia, coma. **EYES:** Liquid may cause eye irritation. **SKIN:** Repeated contact may cause irritation and cracking.

**Emergency and First Aid Procedures** **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical assistance for serious exposure. **SKIN:** Flush with water. **EYES:** Flush with water for 15 minutes, lifting lower and upper eyelids occasionally. If irritation develops or persists, get medical attention. **INGESTION:** If swallowed, if conscious, give large amounts of water to drink and call physician. Never give anything by mouth to an unconscious person.

## SECTION VI REACTIVITY DATA

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

**Incompatibility (Materials to Avoid)** Strong oxidizing materials may react vigorously with this alcohol solution.

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

<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 to sewer with copious amounts 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. Dispose of in an approved incinerator or contract with a licensed waste disposal service.

## SECTION VIII SPECIAL PROTECTION INFORMATION

**Respiration Protection (Specify Type)** None should be needed in normal laboratory use at room temperature. 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.

**Protective Gloves** Rubber for prolonged contact. **Eye Protection** Chemical safety glasses.

**Other Protective Equipment** Lab coat, eye wash station, fire extinguisher, proper gloves.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool place away from oxidizing materials and fire hazards. 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.

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. 4	<b>Date</b> 3/18/99	<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>	ISOPROPYL ALCOHOL, 10%	 <b>CHEMTREC</b> <b>800-424-9300</b> Day 716-226-6177  <b>NFPA HAZARD RATING</b> LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4  <b>HMIS *</b> Health 1 Fire 1 Reactivity 0
<b>Chemical Synonyms</b>	2-Propanol, Isopropanol	
<b>Formula</b>	Mixture.	
<b>Unit Size</b>	100 mL.	
<b>C.A.S. No.</b>	Mixture.	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Isopropyl Alcohol: (CAS No. 67-63-0)	10%	400 ppm (SKIN)
Water: (CAS No. 7732-18-5)	90%	None established.
<b>WARNING! FLAMMABLE! MAY CAUSE EYE IRRITATION ON CONTACT.</b>		

## SECTION III PHYSICAL DATA

<b>Melting Point (°F)</b>	Below 0°C (32°F)	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	Approx. 0.8
<b>Boiling Point (°F)</b>	85°-100°C (185°-212°F)	<b>Percent Volatile by Volume (%)</b>	100%
<b>Vapor Pressure (mm Hg)</b>	33 mm @ 20°C (Pure IPA)	<b>Evaporation Rate (Water = 1)</b>	≤ 1
<b>Vapor Density (Air=1)</b>	2.1 (Pure IPA)		
<b>Solubility in Water</b>	Complete.		
<b>Appearance &amp; Odor</b>	Clear, colorless, mobile liquid; sweet mild odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	39.4°C (103°F) 10% IPA	<b>Flammable Limits in Air % by Volume</b>	Lower 2%	Upper 12%
			pure IPA	

**Extinguisher Media** 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 protective clothing to prevent contact with skin and eyes. Use flooding amounts of water in early stages of fire.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 129)

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Isopropyl Alcohol at a 10% water solution may ignite. May react with strong oxidizing materials. Flame may be invisible in daylight.

D.O.T. Isopropyl alcohol, (solution), 3, UN 1219, PG II

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