



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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(716) 226-6177

MSDS No. FF 285  
Effective Date March 2, 1999

## SECTION V HEALTH HAZARD DATA

FF 285

**Threshold Limited Value** None established for this solution. (ACGIH 1992-93) as Isopropyl alcohol  
TWA: 400 ppm; 983 mg/m<sup>3</sup> STEL: 500 ppm; 1230 mg/m<sup>3</sup> (ACGIH 1992-93)

**Effects of Overexposure** May cause irritation to eyes and skin in sensitive individuals. Symptoms of overexposure may include central nervous system depression, cardiovascular and respiratory depression, and gastrointestinal irritation.

**Emergency and First Aid Procedures**  
**EYES:** Flush with water for 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention. **SKIN:** Flush with water, then wash with soap and water. If irritation develops or persists, get medical attention. **INHALATION AS MIST:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **INGESTION:** If conscious, give water or milk to drink. Get immediate medical attention. 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, heat, spark or flame.
	<b>Stable</b>	X		

**Incompatibility (Materials to Avoid)** None.

**Hazardous Decomposition Products** None.

<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. 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.

Flush down drain with copious amounts 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>	Recommended.	<b>Special</b>	No.
	<b>Mechanical (General)</b>	Recommended.	<b>Other</b>	No.

**Protective Gloves** Rubber **Eye Protection** Chemical safety goggles.

**Other Protective Equipment** Lab coat, apron, eye wash station, proper gloves, ventilation hood and fire extinguisher.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool, dry, well ventilated area away from heat, sparks or flames. This material is similar to soap and may be irritating to the eyes. 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.

Use with adequate ventilation.  
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. 2	<b>Date</b> 3/2/99	<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>	Formula Z Cleaner	 <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 FIRE REACTIVITY 1 1 0
<b>Chemical Synonyms</b>	N/A	
<b>Formula</b>	Mixture.	
<b>Unit Size</b>	up to 4 Lt.	
<b>C.A.S. No.</b>	Mixture.	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Isopropanol: CAS No. 67-63-0	5-10%	400 ppm
1-Butoxy-2-propanol: CAS No. 5131-66-8	5-10%	None established.
Sodium xylene sulfonate: CAS No. 1300-72-7	< 5%	None established.
Tetrapotassium pyrophosphate: CAS No. 7320-34-5	< 1%	None established.
Water: CAS No. 7732-18-5	75-80%	None established.
Linear alcohol surfactants; C <sub>11</sub> -C <sub>15</sub> : CAS No. 68131-40-8	< 5%	None established.

**CAUTION! MAY BE HARMFUL IF INHALED OR SWALLOWED. MAY CAUSE IRRITATION.**

## SECTION III PHYSICAL DATA

<b>Melting Point (°F)</b>	N/A	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	Approx. 1
<b>Boiling Point (°F)</b>	89-99°C (192-210°F)	<b>Percent Volatile by Volume (%)</b>	96.4%
<b>Vapor Pressure (mm Hg)</b>	15 @ 20°C (68°F)	<b>Evaporation Rate (n-Butyl acetate = 1)</b>	2.9
<b>Vapor Density (Air=1)</b>	2.07		
<b>Solubility in Water</b>	Completely.		
<b>Appearance &amp; Odor</b>	Clear liquid; slight odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	95°C (203°F) T.C.C.	<b>Flammable Limits in Air % by Volume as IPA</b>	Lower 2%	Upper 12%
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**Extinguisher Media** Use water, foam, dry chemical or CO<sub>2</sub> (carbon dioxide).

## SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing. Use water spray to cool containers.

## UNUSUAL FIRE AND EXPLOSION HAZARDS

A moderate explosion hazard occurs when this material is exposed to heat or flames. Fire or excessive heat may produce hazardous decomposition products.

D.O.T. **Non Regulated.**

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