



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. SS 1070  
Effective Date May 17, 1999

## SECTION V HEALTH HAZARD DATA

SS 1070

**Threshold Limited Value** TWA: 400 ppm; 980 mg/m<sup>3</sup> (AIR). STEL: 500 ppm, 1225 mg/m<sup>3</sup> (ACGIH 1992-93) (AIR). Human, oral LDLo 2371 mg/kg. Rabbit, skin LD<sub>50</sub> 16 mg/kg.

**Effects of Overexposure** **TARGET ORGANS AFFECTED:** Liver, kidneys, central nervous system. **INHALATION:** Exposure to high concentrations (>400 ppm) may cause eye, nose, and throat irritation and excessively high concentrations may cause narcosis (drowsiness, sleepiness). **EYES:** Liquid may cause irritation. **SKIN:** Prolonged or repeated skin contact may cause irritation and drying, cracking and defatting of the skin. **INGESTION:** 100 mL. can be fatal. Aspiration hazard.

**Emergency and First Aid Procedures** **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **SKIN:** Flush with soap and water. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting 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>	Protect from light. Excessive temperatures, heat, spark and flame.
	<b>Stable</b>	X		

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

**Hazardous Decomposition Products** Thermal decomposition or burning may produce nitrogen oxides, carbon monoxide and/or carbon dioxide.

<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** Remove all ignition sources. Provide adequate ventilation. Absorb spills with an inert dry material and place in a suitable container for disposal by incineration. 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.

Dispose of in an approved incinerator equipped with an afterburner and scrubber.

## SECTION VIII SPECIAL PROTECTION INFORMATION

**Respiration Protection (Specify Type)** None should be 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 glasses.

**Other Protective Equipment** Goggles, lab coat, eye wash station, proper gloves, ventilation hood, fire extinguisher.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool, dry place away from strong 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. Avoid contact with eyes and skin. Keep away from heat, sparks, and flame. Keep container tightly closed when not in use. 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. 6	<b>Date</b> 5/17/99	<b>Approved</b> Michael Raszeja	<b>Chemical Safety Coordinator</b> MR
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The information contained herein is furnished without warranty of any kind. Employers should use this 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

<b>Product</b>	SUDAN IV, ALCOHOL SOLUTION	 <p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING</p> <table border="1"> <tr> <td>LEAST</td> <td>SLIGHT</td> <td>MODERATE</td> <td>HIGH</td> <td>EXTREME</td> </tr> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> <p>HMIS *</p> <table border="1"> <tr> <td><b>Health</b></td> <td>1</td> </tr> <tr> <td><b>Fire</b></td> <td>3</td> </tr> <tr> <td><b>Reactivity</b></td> <td>2</td> </tr> </table>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	<b>Health</b>	1	<b>Fire</b>	3	<b>Reactivity</b>	2
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0	1		2	3	4													
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<b>Chemical Synonyms</b>	Sudan IV Alcohol Solution																	
<b>Formula</b>	Mixture.																	
<b>Unit Size</b>	up to 3.785 Lt.																	
<b>C.A.S. No.</b>	Mixture.																	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Sudan IV Biological Stain Powder: (CAS No. 85-83-6)	0.5%	None established.
Isopropyl Alcohol: (CAS No. 67-63-0)	99.5%	See Section V.

**DANGER! FLAMMABLE! MAY BE HARMFUL IF SWALLOWED,**

**INHALED OR ABSORBED THROUGH SKIN. CAUSES IRRITATION.**

## SECTION III PHYSICAL DATA

<b>Melting Point (°F)</b>	Approx. -90°C (-130°F)	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	Approx. 0.786 at 20°C
<b>Boiling Point (°F)</b>	82°C (180°F) (Isopropyl Alc.)	<b>Percent Volatile by Volume (%)</b>	99.5%
<b>Vapor Pressure (mm Hg)</b>	33 (Isopropyl Alc.)	<b>Evaporation Rate (Ether = 1)</b>	Greater than 1.
<b>Vapor Density (Air=1)</b>	2.1 (Isopropyl Alc.)		
<b>Solubility in Water</b>	Complete.		
<b>Appearance &amp; Odor</b>	Red liquid; pleasant odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	53°F (12°C) cc (IPA)	<b>Flammable Limits in Air % by Volume</b>	IPA	<b>Lower</b>	<b>Upper</b>
				2%	12%

**Extinguisher Media** Water spray; dry chemical; carbon dioxide (CO<sub>2</sub>), alcohol foam.

## SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing.

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

## UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials. Flame may not be visible 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