



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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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/m³ (AIR). STEL: 500 ppm, 1225 mg/m³ (ACGIH 1992-93) (AIR). Human, oral LDLo 2371 mg/kg. Rabbit, skin LD₅₀ 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

Stability	Unstable	Stable	Conditions to Avoid
		X	Protect from light. Excessive temperatures, heat, spark and flame.

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

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

Hazardous Polymerization	Conditions to Avoid
May Occur	Will Not Occur
	X
Not applicable.	

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.

Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	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.

Revision	No. 6	Date	5/17/99	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	SUDAN IV, ALCOHOL SOLUTION
Chemical Synonyms	Sudan IV Alcohol Solution
Formula	Mixture.
Unit Size	up to 3.785 Lt.
C.A.S. No.	Mixture.

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NFPA
HAZARD RATING
LEAST SLIGHT MODERATE
0 1 2

Health 1
Fire 3
Reactivity 2

HMIS *
HIGH EXTREME
3 4

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

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

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	53°F (12°C) cc (IPA)	Flammable Limits in Air % by Volume IPA	Lower	Upper
			2%	12%
Extinguisher Media	Water spray; dry chemical; carbon dioxide (CO ₂), 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