



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. EE 51  
Effective Date October 30, 1998

## SECTION V HEALTH HAZARD DATA

EE 51

### Threshold Limited Value

Ethyl alcohol: TWA: 1,000 ppm; 1,900 mg/m<sup>3</sup>. TLV (skin) Methanol 200 ppm; 260 mg/m<sup>3</sup>. Ethyl Acetate TWA: 400 ppm; 1400 mg/m<sup>3</sup> (air).

### Effects of Overexposure

**INGESTION:** Causes dizziness, drowsiness, decreased reaction, euphoria, nausea, vomiting, staggering gait, and coma. **INHALATION:** May cause dizziness, drowsiness, nausea and vomiting, inability to concentrate and irritation of the throat. **SKIN CONTACT:** Irritation and defatting of skin on prolonged contact. **EYE CONTACT:** May cause blindness.

### Emergency and First Aid Procedures

**INGESTION:** Do NOT give anything by mouth to an unconscious or very drowsy person. If conscious, have victim drink several glasses of water. Call physician or Poison Control Center immediately. Induce vomiting if advised by physician or Poison Control Center. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **INHALATION:** Remove to fresh air. Give artificial respiration if not breathing. Oxygen may be given by qualified personnel if breathing is difficult. Obtain medical attention. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

## SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Protect from light, excessive temperature, heat, sparks and flame.
	Stable		

Incompatibility (Materials to Avoid)	Contact with Acetyl chloride and strong oxidizing agents may react violently. Concentrated nitric or sulfuric acid.
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Hazardous Decomposition Products	Thermal decomposition or burning can produce carbon monoxide and/or carbon dioxide.
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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	Remove all sources of ignition, provide adequate ventilation. For small spills, dilute with water and flush to sewer with copious amounts of water or absorb on vermiculite, paper, earth or other absorbent. Burn in an approved incinerator or open pit away from buildings and people.
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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. Dispose of in an approved incinerator or contract with a licensed chemical waste disposal agency.
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## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	For normal laboratory use at room temperatures none should be needed with adequate room ventilation. If required work in fume hood. Do not use in confined area.
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Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Proper gloves, smock, apron, eye wash station, fire extinguisher and a ventilation hood.
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## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry, well-ventilated area, away from fire hazards. Wash thoroughly after handling. Do not take internally.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.
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Avoid prolonged or repeated breathing of vapor. 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.

Revision No. 5	Date 10/30/98	Approved Michael Raszeja	Chemical Safety Coordinator	MR
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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	EOSIN Y 1%, ALCOHOL SOLUTION
Chemical Synonyms	Tetrabromofluorescein, Eosin Yellow, C.I. No. 45380
Formula	Mixture. See Section II.
Unit Size	up to 4 Lt.
C.A.S. No.	Mixture. See Section II.

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

Health 3  
Fire 4  
Reactivity 2

HMIS \*  
3 4

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Eosin Y: (CAS No. 17372-87-1)	1%	None established.
Ethyl Alcohol, Denatured *: (CAS No. 64-17-5)	99%	See Section V.

**WARNING! FLAMMABLE! MAY BE HARMFUL IF SWALLOWED. AVOID PROLONGED OR**

**REPEATED BREATHING OF VAPOR. OVEREXPOSURE TO VAPOR MAY BE HARMFUL.**

## SECTION III PHYSICAL DATA

Melting Point (°F)	-113°C (-173°F)	Specific Gravity (H <sub>2</sub> O = 1)	Approx. 0.814 @ 60°C
Boiling Point (°F)	75°-80°C (163°-174°F)	Percent Volatile by Volume (%)	99%
Vapor Pressure (mm Hg)	Ca 44.6 at 68°F	Evaporation Rate (Butyl Acetate =1)	4.1
Vapor Density (Air=1)	1.6		
Solubility in Water	Complete.		
Appearance & Odor	Yellow, fluorescent liquid; hydrocarbon odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	10°C (50°F) TCC (Ethyl Alc.)	Flammable Limits in Air % by Volume	Lower 3.3% (Et. Alc.)	Upper 19% (Et. Alc.)
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Extinguisher Media	Carbon dioxide (CO <sub>2</sub> ); dry chemical (ABC); water spray or fog. Alcohol type or universal-type foams.
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### SPECIAL FIREFIGHTING PROCEDURES

\* Denaturants:

Methanol: (CAS No. 67-56-1)  
Ethyl Acetate: (CAS No. 141-78-6)  
Methyl Isobutyl Ketone: (CAS No. 108-10-1)  
Rubber Hydrocarbon Solvent: (CAS No. 64742-89-8)  
Benzene: (CAS No. 71-43-2)  
Water: (CAS No. 7732-18-5)

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

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapors formed from this product may travel or be moved by air currents and ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge, or other ignition sources at location distant from handling point. **CAUTION:** Flame may not be visible in daylight. Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

Auto-ignition temperature: 685°F (363°C).

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 127)

D.O.T.	Denatured alcohol, (Solution), 3, NA 1987, PG II
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Approved by U.S. Department of Labor "essentially similar" to form OSHA-20