



**ALDON  
CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. FF 30  
Effective Date December 3, 1996

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	FAST GREEN ALCOHOL SOLUTION
Chemical Synonyms	Fast green, biological stain solution
Formula	Mixture.
Unit Size	up to 4 Lt.
C.A.S. No.	Mixture.

3

0

0

CHEMTREC  
800-424-9300  
Day 716-226-6177

NFPA  
HAZARD RATING  
LEAST SLIGHT MODERATE  
0 1 2

Health 3  
Fire 4  
Reactivity 2

HMIS\*  
HIGH EXTREME  
3 4

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Fast Green: (CAS No. 2353-45-9)	0.5%	None established.
Ethyl Alcohol, denatured: (CAS No. 64-17-5) *	99.5%	TWA: 1000 ppm; 1880 mg/m <sup>3</sup>

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

## SECTION III PHYSICAL DATA

Melting Point (°F)	-113°C (-173°F) *	Specific Gravity (H <sub>2</sub> O = 1)	0.794 @ 60°F
Boiling Point (°F)	75-80°C (163-174°F) *	Percent Volatile by Volume (%)	99.5%
Vapor Pressure (mm Hg)	Ca 44.6 @ 68°F *	Evaporation Rate (Butyl Acetate =1)	4.1
Vapor Density (Air=1)	Ca 1.59 *		
Solubility in Water	Complete.		
Appearance & Odor	Green liquid; mild characteristic odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	8.89°C (48°F) TCC.	Flammable Limits in Air % by Volume	Lower 3.3 (Et. Alc.)	Upper 19.0 (Et. Alc.)
Extinguisher Media	Water spray, carbon dioxide; dry chemical; alcohol-type, or universal-type foams.			

### SPECIAL FIREFIGHTING PROCEDURES

Wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing. Use flooding amounts of water in early stages of fire.

Autoignition Temperature: 363°C (685°F)

\* Denaturants:  
Methyl Alcohol: (CAS No. 67-56-1)  
Methyl Isobutyl Ketone: (CAS No. 108-10-1)  
Ethyl Acetate: (CAS No. 141-78-6)  
Rubber Hydrocarbon Solvent: (CAS No. 64742-89-8)

### 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.

## SECTION V HEALTH HAZARD DATA FF 30

Threshold Limited Value	Methanol TWA: (skin) 262 mg/m <sup>3</sup> ; STEL: 328 mg/m <sup>3</sup> . Ethyl Acetate TWA: 1440 mg/m <sup>3</sup> . Methyl Isobutyl Ketone TWA: 205 mg/m <sup>3</sup> ; STEL: 307 mg/m <sup>3</sup> . None established for this mixture by ACGIH 1992-93.
Effects of Overexposure	<b>INGESTION:</b> Causes dizziness, drowsiness, decreased reaction, euphoria, nausea, vomiting, staggering gait, and coma. <b>INHALATION:</b> May cause dizziness, drowsiness, nausea and vomiting, inability to concentrate and irritation of the throat. <b>SKIN CONTACT:</b> Irritation and defatting of skin on prolonged contact. <b>EYE CONTACT:</b> 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. If breathing is difficult, give oxygen. Get 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 Stable	Conditions to Avoid	Heat, fire, ignition source.
Incompatibility (Materials to Avoid)	Concentrated nitric or sulfuric acid; contact with Acetyl chloride and strong oxidizing agents may react violently.		

Hazardous Decomposition Products	Thermal decomposition or burning can produce carbon monoxide and/or carbon dioxide.		
Hazardous Polymerization	May Occur Will Not Occur	Conditions to Avoid	Not applicable.

## 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 with an inert dry material and place in a suitable container for disposal.

**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 accordance with federal, state and local regulations.

## 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.			
Ventilation	Local Exhaust Mechanical (General)	Recommended.	Special Other	No. Adequate to maintain below exposure limit.
Protective Gloves	Rubber.		Eye Protection	Chemical safety glasses.

**Other Protective Equipment**  
Smock, apron, eye wash station, goggles, fire extinguisher, proper gloves.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing**  
Store in a cool, dry, well-ventilated area. Keep away from heat, sparks and flame. Use with adequate ventilation. Do not take internally.  
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.

Wash thoroughly after handling.  
Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 3	Date 12/03/96	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.

(1993 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.6, GUIDE PAGE NO. 26)

D.O.T. Denatured alcohol, (solution), 3, NA 1987, PG II

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