



**ALDON
CORPORATION**

MATERIAL SAFETY DATA SHEET

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MSDS No. FF 20
Effective Date February 24, 1999

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	FAST GREEN FCF	<p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4</p> <p>HMIS * 3 0</p>
Chemical Synonyms	Fast Green, Biological Stain	
Formula	$C_{37}H_{34}N_2Na_2O_{10}S_3$	
Unit Size	up to 500 grams	
C.A.S. No.	2353-45-9	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Fast Green FCF, C.I. No. 42053	100%	None established.
WARNING! MAY BE HARMFUL IF SWALLOWED, INHALED		
OR ABSORBED THROUGH SKIN. CAUSES IRRITATION.		

SECTION III PHYSICAL DATA

Melting Point (°F)	N/A	Specific Gravity ($H_2O = 1$)	N/A
Boiling Point (°F)	N/A	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	Soluble.		
Appearance & Odor	Maroon powder; no odor. Hygroscopic.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-volatile solid.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	Water spray; carbon dioxide (CO_2); dry chemical or foam.				

SPECIAL FIREFIGHTING PROCEDURES

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

UNUSUAL FIRE AND EXPLOSION HAZARDS

This material is hygroscopic, dust may form explosive mixture in air. When heated to decomposition, emits toxic fumes of oxides of nitrogen (NO_x) and oxides of sulfur (SO_x); can react vigorously with oxidizing materials.

SECTION V HEALTH HAZARD DATA

FF 20

Threshold Limited Value

None established by ACGIH 1992-93.
For nuisance dust $5mg/m^3$ TLV.

Effects of Overexposure

TARGET ORGANS AFFECTED: Eyes.
May be harmful by inhalation, ingestion or skin absorption. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures

EYES: Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting and get medical attention. Never give anything by mouth to an unconscious person. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Protect from light, moisture.
	Stable	X		Excessive temperature or heat.
Incompatibility (Materials to Avoid)	Strong oxidizers and reducing agents may destroy color.			
Hazardous Decomposition Products	Thermal decomposition or burning may produce carbon dioxide and/or carbon monoxide, oxides of nitrogen, sulfur and other potentially dangerous fumes.			
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

Recover for use if not contaminated. Avoid dust generation. Sweep up material and place in suitable container for disposal. Wash spill area well 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 or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.			
Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.
Protective Gloves	Rubber.		Eye Protection	Chemical safety glasses.
Other Protective Equipment	Smock, apron, eye wash station, proper gloves, ventilation hood.			

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

Keep container tightly closed when not in use.

Store in a cool, dry place. Avoid inhalation of dust. Use adequate ventilation. Wash thoroughly after handling.

Other Precautions

Read label on container before using. Do not wear contact lenses when working with chemicals.

Avoid contact with skin and eyes.
Remove and wash contaminated clothing.

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

Revision	No. 4	Date	2/24/99	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
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D.O.T. NON-REGULATED.

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