

MATERIAL SAFETY DATA SHEET

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General Information No.
In Case of Emergency, Call
PROSAR:

229-245-8845
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I. PRODUCT IDENTIFICATION

Product Name: Autograph
Active ingredient: Fosetyl Aluminum (70%)
Active Ingredient IUPAC Name: Aluminum tris(ethyl phosphonate)

II. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS Number</u>	<u>% by Wt.</u>
Fosetyl Aluminum	CAS #: 39148-24-8	70%

III. HAZARDS IDENTIFICATION

NFPA: Health - 1

Flammability - 0

Reactivity - 0

EMERGENCY OVERVIEW

Contact cause eye irritation, redness. Repeated/prolonged skin contact may cause irritation, redness, swelling. Ingestion may irritate gastrointestinal tract. Harmful if inhaled. May cause upper respiratory tract irritation.

POTENTIAL HEALTH EFFECTS

Eye: Contact with the eyes by product causes irritation and redness.

Skin: Prolonged or repeated contact with product cause skin irritation, redness. Harmful if absorbed through the skin; will cause redness, and swelling. Skin absorption: absorption is may occur.

Ingestion: Ingestion of product causes irritation of the gastrointestinal tract to possibly include nausea, vomiting and diarrhea.

Inhalation: Inhalation of product granules may cause irritation of the nose, throat and upper respiratory tract.

Chronic effects/carcinogenicity: Not listed as a carcinogen by NTP, IARC or OSHA, however, US EPA's integrated risk information system (iris) rates fosetyl-al as a possible human carcinogen.

IV. FIRST AID MEASURES

If In Eyes:	Immediately flush with large quantities of water for 15 minutes. Hold eyelids apart during irrigation to insure thorough flushing of the entire area of the eye and lids. Obtain medical attention if irritation occurs.
If On Skin:	Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Obtain medical attention if irritation occurs.
If Ingested:	If victim is conscious, give 2 to 4 glasses of water but do not induce vomiting unless directed by a physician or the Poison Control Center. Obtain medical attention.
If Inhaled:	Remove victim from contaminated atmosphere. If breathing is labored, administer oxygen. If breathing has ceased, clear airway and start mouth to mouth resuscitation. If heart has stopped beating, external heart massage should be applied. Obtain medical attention.

V. FIRE FIGHTING MEASURES

Flash point:	Not Applicable (NA)
Method used:	NA
Flammable Limits	LFL: NA UFL: NA
Fire & Explosive Hazards:	This product. When mixed with air in critical proportions and in the presence of an ignition source, may present a dust explosion hazard. Contain the spread of the fire fighting media. Dike areas to prevent runoff and contamination of water sources.
Extinguishing Media:	Foam, Dry Powder, Carbon Dioxide (CO ₂)
Fire Fighting Equipment:	As in any fire, wear self-contained breathing apparatus, pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

VI. ACCIDENTAL RELEASE MEASURES

Small releases: clean up promptly by sweeping or vacuum. Pick up and transfer to properly labeled containers.

Large releases: Confine area to qualified personnel. Block off release if safe to do so. Dike spill area to prevent runoff into sewers, drains or surface waterways (potential aquatic toxicity). Recover as much of the product as possible. Treat remaining material as a small release (above).

VII. HANDLING AND STORAGE

Handling: Avoid contact with eyes. Use only in a well ventilated area. Wash thoroughly after handling. Avoid prolonged or repeated breathing of vapors. Avoid prolonged or repeated contact with the skin.

Storage: Do not store combustibles in the area of storage containers. Keep away from any sources of heat or flame. Store tote and smaller containers out of direct sunlight at moderate temperatures.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: If conditions exist where particles may become airborne, a NIOSH/MSHA approved respirator should be worn.

Skin Protection: Applicators and handlers must wear long-sleeved shirt and long pants, waterproof gloves shoes and socks. Wash contaminated clothing prior to reuse.

Eye Protection: Safety glasses with side-shields or Chemical goggles or a full face shield.

Exposure Guidelines:

	OSHA		ACGIH	
	TWA	STEL	TLV	STEL
Fosetyl Aluminum	NA	NA	2 mg/m ³ (as Al)	NA

Engineering Controls: Use adequate exhaust ventilation to prevent inhalation of product granules.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Green, Dry Free-Flowing Granules
Odor: Product Specific
Boiling point: NA
Vapor pressure: NA
Vapor density: NA
Solubility in water: Dispersible
Specific gravity: NA
Freezing point: NA
pH: 3.0 – 4.0 (1.0%) At 23°C
Volatile: NA

X. STABILITY AND REACTIVITY

Stability: This is a stable material under normal conditions.

Hazardous polymerization: Will not occur

Hazardous decomposition products: From thermal decomposition – oxides of phosphorus, carbon dioxide, CO₂, carbon monoxide, and phosphine gas. No hazardous reactions will occur when stored and handled according to prescribed instructions.

Incompatibility: Avoid extreme humidity, strong acids, strong bases, strong oxidizing or reducing agents.

XI. TOXICOLOGICAL INFORMATION

Oral:	Oral rat: LD ₅₀ : 2,860 mg/kg
Dermal:	Dermal rabbit: LD ₅₀ : > 2,000 mg/kg
Inhalation:	Inhalation rat: LC ₅₀ : > 5 mg/L (4 Hrs)
Chronic/Carcinogenicity:	EPA (IRIS) – possible human carcinogen
Teratology:	Data not available
Reproduction:	Data not available
Mutagenicity:	Data not available
Irritation (Rabbit):	Skin – slight irritation Eye – mild eye irritation Sensitization – (guinea) non-sensitizing

XII. ECOLOGICAL INFORMATION

Environmental precautions:	This product is toxic to aquatic and estuarine invertebrates. Drift and runoff from treated areas may be hazardous to fish/aquatic organisms in adjacent sites. Do not apply directly to water, to areas where surface water is present or to inter-tidal areas below the mean high water mark outside of a treated rice field. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.
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XIII. DISPOSAL CONSIDERATIONS

Follow container label instructions fore disposal of wastes generated during use in compliance with the product label. Dispose of product containers, waste containers and residues according to local, state and federal environmental and health regulations.

Proper disposal of containers starts with emptying any remaining residue in the container. Then triple rinse the container. Rinsed packaging may be acceptable for landfill, other wise incineration will be required in accordance with local, state and federal law. Do not re-use empty containers.

XIV. TRANSPORT INFORMATION

DOT Shipping Name: Fosetyl aluminum
DOT Hazard Class: NA
UN/NA Number: NA
Packing Group: NA
DOT Placard: NA
DOT Label(s): NA
IMO Shipping Name: Fosetyl aluminum
RQ (Reportable Quantity): NA
RR STCC Number: NA

XV. REGULATORY INFORMATION

OSHA: This product is listed as a hazardous material under criteria of the Federal OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SARA TITLE III:

EHS (Extremely Hazardous Substance) List No
Section 311/312, (Tier I,II) Categories:
Immediate (acute) Yes
Fire No
Sudden release No
Reactivity No
Delayed (chronic) Yes

Section 313 (Toxic Release Reporting-Form R): No
TPQ (Threshold Planning Quantity): No

CERCLA/SUPERFUND: RQ (Reportable Quantity) No
TSCA (Toxic Substance Control Act) Inventory List: Yes
RCRA (Resource Conservation and Recovery Act) Status: NA
WHMIS (Canada) Hazard Classification: NA
DSL/NDSL Unknown

DOT Hazardous Material: (See Section XIV) No

CAA Hazardous Air Pollutant (HAP) No

XVI. OTHER INFORMATION

THE INFORMATION PUBLISHED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN COMPILED FROM OUR EXPERIENCE AND OSHA, ANSI, NFPA, DOT, ERG, HSDB AND CHRIS. IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SUITABILITY OF THIS INFORMATION FOR THE ADOPTION OF NECESSARY SAFETY PRECAUTIONS. WE RESERVE THE RIGHT TO REVISE MATERIAL SAFETY DATA SHEETS PERIODICALLY AS NEW INFORMATION BECOMES AVAILABLE.