



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
Avon, New York 14414
(716) 226-6177

MSDS No. HH 70
Effective Date November 6, 1998

SECTION V HEALTH HAZARD DATA

HH 70

Threshold Limited Value None established for this mixture. (ACGIH 1992-93). Isopropyl Alcohol: STEL: 500 ppm; 1,225 mg/m³ (Air). Thiram: TWA: 5 mg/m³; STEL: 10 mg/m³.

Effects of Overexposure As dust may cause irritation of nose, throat and skin. May be harmful if inhaled (as dust) or swallowed. Do not breathe dust, spray, mist. **INHALATION:** Exposure to high concentrations may cause narcosis, (drowsiness, sleepiness). Avoid contact with eyes, skin or clothing. Cases of allergic contact eczema have been reported. Thiram is the primary cause of ill effects of this product. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures

INGESTION: If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting. Repeat until vomit fluid is clear. Call physician immediately. Never give anything by mouth to an unconscious person.

SKIN: Flush with water, then wash with mild soap and water. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention. **INHALATION:** If inhaled as dust or mist, remove to fresh air, treat symptomatically and get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive temperature or heat, sparks, flame.
	Stable	X		

Incompatibility (Materials to Avoid) Strong oxidizers.

Hazardous Decomposition Products When heated to decomposition, emits toxic fumes of oxides of nitrogen (NO_x) and oxides of sulfur (SO_x).

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

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 in paper, vermiculite, sand, earth. Place in a suitable container. Incinerate. 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 or contract with a licensed chemical waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None 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	Adequate to maintain below exposure limit.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
--------------------------	---------	-----------------------	--------------------------

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

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool place, away from strong oxidizers and fire hazards. Shake container before use. 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, skin and clothing. 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 11/6/98	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	HORMONE ROOT FORMING WITH FUNGICIDE	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * HEALTH FIRE REACTIVITY 2 2 0
Chemical Synonyms	Plant Root Forming Hormone, Solution *	
Formula	Mixture. See Section II.	
Unit Size	up to 4 Lt.	
C.A.S. No.	Mixture. See Section II.	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Isopropyl Alcohol: (CAS No. 67-63-0)	50%	400 ppm (air)
Naphthalene Acetic Acid: (CAS No. 86-87-3)	0.02%	None established.
Indolebutyric Acid: (CAS No. 133-32-4)	0.06%	None established.

WARNING! FLAMMABLE! MAY BE HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION TO SKIN AND EYES.

SECTION III PHYSICAL DATA

Melting Point (°F)	Freezes below 0°C (32°F)	Specific Gravity (H₂O = 1)	Approx. 1.0
Boiling Point (°F)	Approx. 91°C (197°F)	Percent Volatile by Volume (%)	96.18%
Vapor Pressure (mm Hg)	33 mm @ 20°C (IPA)	Evaporation Rate (Ether = 1)	Greater than 1.
Vapor Density (Air=1)	2.1 (IPA)		
Solubility in Water	Thiram portion of mixture is insoluble in water.		
Appearance & Odor	White to tan colored slurry when mixed; sweet alcohol odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	75.5°F (24°C) TCC	Flammable Limits in Air % by Volume	Lower	Upper
		IPA	2.5 @ 26°C	12.1 @ 66°C

Extinguisher Media Use any media suitable for extinguishing supporting fire. "Alcohol foam"; carbon dioxide (CO₂); dry chemical (ABC); water spray.

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

* Thiram: (CAS No. 137-26-8).....3.8%.....TWA: 5 mg/m³
Water: (CAS No. 7732-18-5).....46.12%.....None established.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 129)

UNUSUAL FIRE AND EXPLOSION HAZARDS When heated to decomposition, emits toxic fumes of oxides of nitrogen (NO_x) and oxides of sulfur (SO_x).

D.O.T. ISOPROPYL ALCOHOL, (SOLUTION), 3, UN 1219, PG II

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