

MATERIAL SAFETY DATA SHEET

Manufacturer: The Espoma Company
6 Epsoma Road
Millville, NJ 08332

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Telephone: 800-634-0603

I. PRODUCT INFORMATION

Product: 4n1 Weed Control Concentrate
EPA Reg. No. 67702-19-83598
Chemical Name: Ammoniated salts of fatty acids/ Maleic hydrazide
Chemical Family: Carboxylic acids, salts of carboxylic acids/ agricultural growth and sprouting inhibitor

II. HAZARDOUS INGREDIENTS

<u>Components</u>	<u>%</u>	<u>Hazard Information</u>
Ammonium salts of fatty acids	19-23%	Eye irritant

III. PHYSICAL AND CHEMICAL CHARACTERISTICS (FIRE AND EXPLOSION DATA)

Solubility in Water: Miscible in all proportions
Appearance and Odor: Translucent, colorless, odour of soap, ammonia
Flash Point (°C): N/A
Specific Gravity, 25°C: ~ 0.98 g/ml
pH: 8.35 ± 0.15
Extinguishing Media for Fires: Water, CO₂, foams
Special Fire Fighting Procedures: Normal extinguishing procedures

N/A - not applicable, NAV - not available, ca. - approximately

IV. PHYSICAL HAZARDS

Stability: Product is stable
Conditions to Avoid: Exposure to excessive heat
Materials to Avoid: None known
Hazardous Decomposition Products: CO₂, CO, NO_x, NH₃
Hazardous Polymerization Conditions: None known

V. HEALTH HAZARD DATA

LD ₅₀ (oral) > 5000 mg/kg	LC ₅₀ (fish): not available
Carcinogen or Potential Carcinogen	NTP: no IARC: no OSHA: no
Routes of Entry:	Inhalation, skin
Skin:	Dermal LD ₅₀ > 5000 mg/kg, causes irritation, reddening; prolonged or frequent contact may cause allergic reaction
Eyes:	Can be expected to cause moderate to severe reversible injury
Ingestion:	Oral LD ₅₀ >5000 mg/kg
Inhalation:	LD ₅₀ > 20mg/l. Can be expected to cause irritation if fine droplets are inhaled.
Medical Conditions Aggravated:	Chronic skin, eye or respiratory disease.

VI. EMERGENCY FIRST AID PROCEDURES

Skin:	Wash with plenty of soap and water. Get medical attention.
Eyes:	Hold eyelids open and flush with gentle, steady stream of water for 15 minutes. Get medical attention.
Ingestion:	Call a doctor or get medical attention. Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, egg whites, or gelatin solution. If none available drink water.
Inhalation:	Remove to fresh air. If irritation persists consult a physician.

VII. SPECIAL PROTECTION INFORMATION

Ventilation:	Adequate ventilation for aerosol should be provided.
Respiratory Protection:	NIOSH/MSHA approved respirator for spraying dilutions of products
Eye Protection:	Chemical safety goggles
Protective Gloves:	Neoprene or rubber

VIII. SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Storage Recommendations:	Store at ambient temperatures, tightly capped.
Spill or Leak Procedures:	Absorb large spills with absorbent materials. Will be very slippery.
Disposal Recommendations:	Dispose of in accordance with local regulations.

