

MATERIAL SAFETY DATA SHEET

HERBICIDAL SOAP

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Issue Date: 03/05

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product

HERBICIDAL SOAP

EPA Reg. No. 67702-8-54705

Common Name: Liquid herbicidal soap.

Chemical Description: Ammoniated salts of fatty acids.

TSCA/CAS No.: This product is a mixture — there is no specific CAS number.

Manufactured For

Lawn and Garden Products, Inc.

P. O. Box 35000

Fresno, CA 93745-5000

Emergency Phone Numbers

Emergency Telephone: DAYS: (559) 499-2100 EVES.: (559) 994-9144

CHEMTREC (24-Hour Emergency Number): (800) 424-9300

EPA National Response Center: (800) 424-8802

SECTION 2. INGREDIENTS

CHEMICAL	CAS NO.	%	TLV OR PEL	RQ (lbs)
Ammonium salts of fatty acids	*N.A.	19-23	N.A.	*N.P.

* N.A. - Not Available.

* N.P. - Not Pertinent.

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Translucent, colorless liquid with ammonia odor. Causes substantial but temporary eye injury and skin irritation. Avoid exposure to excessive heat. Not D.O.T. regulated.

HEALTH: 2 REACTIVITY: 0 FLAMMABILITY: 0 ENVIRONMENT: 0
(0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme)

SECTION 4. FIRST AID

Eyes: Hold eyelids open and flush with gentle, steady stream of water for 15 minutes. Get medical attention.

Skin: Wash with plenty of soap and water. Get medical attention.

Ingestion: Call a physician or Poison Control Center. Drink promptly a large quantity of milk, egg whites, or gelatin solution. If none available, drink water. Do not induce vomiting or give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air. If irritation persists, consult a physician.

SECTION 5. FIRE AND EXPLOSION HAZARDS

Flash Point:	Not applicable.
Test Method:	Not available.
LEL Flammable Limits:	Not available.
UEL Flammable Limits:	Not available.
Autoignition Temperature:	Not pertinent.
Flammability Classification:	Noncombustible.
Known Hazardous Products of Combustion:	Not known.
Properties that Initiate/Contribute to Intensity of Fire:	Not known.
Potential For Dust Explosion:	None.
Reactions that Release Flammable Gases or Vapors:	Not known.
Potential For Release of Flammable Vapors:	None.
Unusual Fire & Explosion Hazards:	None.
Extinguishing Media:	Water, CO ₂ or foams.
Special Firefighting Procedures:	Wear positive pressure, self-contained breathing apparatus and goggles. Avoid smoke inhalation. Contain any liquid runoff.

SECTION 6. SPILLS AND LEAKS

Containment:	Prevent product spillage from entering drinking water supplies or streams.
Clean Up:	Material will be very slippery. Collect liquid or absorb onto absorbent material and package for disposal.
Evacuation:	Not necessary.

SECTION 7. STORAGE AND HANDLING

Storage:	Store in plastic or stainless steel container in a cool, well-ventilated, dry place at temperatures above 40°F. Do not store near food or feeds. Do not stack pallets more than two (2) high.
Transfer Equipment:	Transfer product using chemical-resistant plastic or stainless steel tanks, pumps, valves, etc.
Work/Hygienic Practices:	Keep out of reach of children. Causes substantial but temporary eye injury. Causes skin irritation. Prolonged or frequent exposure may cause allergic reactions in some individuals. Avoid breathing vapor or spray mist. Harmful if inhaled. Do not get in eyes, on skin or on clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Keep unprotected persons out of treated areas until sprays have dried.

SECTION 8. PERSONAL PROTECTIVE EQUIPMENT

Eyes:	Protective eyewear. As a general rule, do not wear contact lenses when handling.
Skin:	Wear long-sleeved shirt, long pants, socks, shoes and rubber gloves.
Respiratory:	Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH-approved dust/mist respirator (such as 3M #8710).
Ventilation:	Recommended but no TLV established.

SECTION 9. PHYSICAL AND CHEMICAL DATA

Appearance:	Translucent, colorless liquid.
Odor:	Ammonia odor.
pH:	8.40 ± 0.10
Vapor Pressure:	Not available.
Vapor Density (Air = 1):	Not available.
Boiling Point:	Not available.
Freezing Point:	Not available.
Water Solubility:	Miscible.
Density:	8.34 lbs./gal.
Evaporation Rate:	Not available.
Viscosity:	Not available.
% Volatile:	Not available.
Octanol/Water Partition Coefficient:	Not available.
Saturated Vapor Concentration:	Not available.

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable.
Conditions To Avoid:	Exposure to excessive heat.
Incompatibility:	Copper, brass and galvanized metals react with the product.
Hazardous Decomposition Products:	CO ₂ , CO, NO _x
Hazardous Polymerization:	None known.

SECTION 11. POTENTIAL HEALTH EFFECTSAcute Effects:

Eyes:	Can be expected to cause moderate to severe reversible injury.
Skin:	Causes irritation, reddening; prolonged or frequent contact may cause allergic reaction. Dermal LD ₅₀ > 5000 ppm
Ingestion:	May cause gastrointestinal irritation and/or nausea. LD ₅₀ > 5000 mg/kg.
Inhalation:	Can be expected to cause irritation if fine droplets are inhaled. LD ₅₀ > 20 mg/l.
<u>Subchronic Effects:</u>	None known.
<u>Chronic Effects:</u>	May aggravate chronic skin, eye or respiratory disease.

SECTION 12. ECOLOGICAL INFORMATION

Algal/Lemna Growth Inhibition:	Not known.
Toxicity to Fish and Invertebrates:	Not known.
Toxicity to Plants:	Not known.
Toxicity in Birds:	Not known.

SECTION 13. DISPOSAL

Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment washwaters. Dispose of waste effluents according to state and local regulations. Also, chemical additions or other alterations of this product may invalidate any disposal information in this MSDS. Therefore, consult local waste regulators for proper disposal. Do not discharge.

SECTION 14. TRANSPORTATION

D.O.T.:	Not D.O.T. Regulated.
Other Shipping Description:	Compounds, Tree or Weed Killing (Herbicide), Liquid. NMFC Item 50320, LTL Class 60

SECTION 15. REGULATORY INFORMATION
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CERCLA: None.

SARA TITLE III, Section 313 Toxic Chemicals: None.

Proposition 65: None.

SECTION 16. OTHER

All information appearing in this document was based on data provided by third party sources and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act. The information is believed to be accurate as of the preparation date, but is not warranted as being the final authority in the use of this product. This information does not purport to be legal or medical advice.