

MATERIAL SAFETY DATA SHEET

70% NEEM OIL

Page 1 of 4

Issue Date: 06/09

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product

70% NEEM OIL

EPA Reg. No. 70051-2-54705

Common Name: Liquid fungicide/insecticide/miticide.

Chemical Description: Clarified hydrophobic extract of Neem Oil

TSCA/CAS No.: The primary CAS No. is 947173-77-5.

Manufactured For

Lawn & Garden Products, Inc.

P. O. Box 35000

Fresno, CA 93745-5000

Emergency Phone Numbers

Emergency Telephone: DAYS: (559) 499-2100 EVES.: (559) 435-2163

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

EPA National Response Center: (800) 424-8802

SECTION 2. HAZARDOUS INGREDIENTS

CHEMICAL	CAS NO.	%	TLV OR PEL	RQ (lbs)
Neem Oil - clarified	947173-77-5	70.0	N.A*	N.P.*

* N.A. – Not Available.

* N.P. – Not Pertinent.

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Brown liquid with garlic odor. Harmful if absorbed through skin. Causes moderate eye irritation. Not D.O.T. regulated.

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

SECTION 4. FIRST AID

- Eyes: Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Get medical attention.
- Skin: Wash thoroughly with soap and water. Remove contaminated clothing. Seek medical attention if irritation persists.
- Ingestion: Swallowing less than one (1) ounce will not cause significant harm. For larger amounts, do not induce vomiting, but give one or two glasses of water to drink and get medical attention.
- Inhalation: Remove person to fresh air. Seek medical attention if irritation persists.

SECTION 5.	FIRE AND EXPLOSION HAZARDS
------------	----------------------------

Flash Point:	347°F (175°C)
Test Method:	Not available.
LEL Flammable Limits:	Not determined.
UEL Flammable Limits:	Not determined.
Autoignition Temperature:	Not determined.
Flammability Classification:	Nonflammable.
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:	Not known.
Unusual Fire & Explosion Hazards:	None.
Extinguishing Media:	Dry chemical, carbon dioxide, alcohol or polymer foam.
Special Firefighting Procedures:	Wear positive pressure, self-contained breathing apparatus and goggles. Avoid inhalation of vapors and fumes. Contain any liquid runoff.

SECTION 6.	SPILLS AND LEAKS
------------	------------------

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

SECTION 7.	STORAGE AND HANDLING
------------	----------------------

Storage:	Store in original container in a cool, well-ventilated, dry place away from direct sunlight. Do not store below 40°F (4°C). Keep container tightly sealed when not in use. 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. Harmful if absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse. Keep children and pets off the treated area until sprays have dried.

SECTION 8.	PERSONAL PROTECTIVE EQUIPMENT
------------	-------------------------------

Eyes:	Chemical dust/splash goggles or full-face shield to prevent eye contact. As a general rule, do not wear contact lenses when handling.
Skin:	Long-sleeved shirt, long pants, chemical resistant gloves, shoes plus socks.
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:	Brown liquid.
Odor:	Garlic odor.
pH:	6.5 – 7.5
Vapor Pressure @ 20°C:	2 mm Hg
Vapor Density (Air = 1):	0.012
Boiling Point:	310°F (154°C)
Melt Point/Freezing Point:	55°F (13°C)
Water Solubility:	Dispersible.
Density:	7.62 lbs./gal.
Evaporation Rate:	Not available.
Viscosity:	Not available.
% Volatile by Vol.:	Not available.
Octanol/Water Partition Coefficient:	Not available.
Saturated Vapor Concentration:	Not available.

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable.
Conditions To Avoid:	None known.
Incompatibility:	None noted.
Hazardous Decomposition Products:	None known.
Hazardous Polymerization:	Will not occur.

SECTION 11. POTENTIAL HEALTH EFFECTSAcute Effects:

Eyes:	May cause mild, reversible eye irritation.
Skin:	Repeated exposure may cause mild sensitization.
Ingestion:	May cause irritation of the gastrointestinal tract. Oral LD ₅₀): > 5 g/kg.
Inhalation:	May be irritating, but not likely from normal use. LC ₅₀ : > 6.2 mg/l.

Subchronic Effects: None known.

Chronic Effects: Repeated skin exposure may cause slight sensitization.

SECTION 12. ECOLOGICAL INFORMATION

Algal/Lemna Growth Inhibition:	Not available.
Toxicity to Fish and Invertebrates:	Not available.
Toxicity to Plants:	Not available.
Toxicity to Birds:	Not available.
Toxicity to Bees:	Toxic to bees exposed to direct treatment.

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:	Insecticides or Fungicides, Liquid. NMFC Item 102120, LTL Class 60

SECTION 15. REGULATORY INFORMATION

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.