



SAFETY DATA SHEET

Issue Date: April 21, 2015

Version: GHS

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Product Name: 70% NEEM OIL
EPA Registration Number: 70051-2-54705
Product Type: Emulsifiable Concentrate
Active Ingredient: Clarified Hydrophobic Extract of Neem Oil
CAS No.: 947173-77-5

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Identified uses: Insecticide, Miticide and Fungicide
Uses advised against: All uses not listed on the label.

1.3 Details of the Supplier of the Safety Data Sheet

Distributed by:
Lawn and Garden Products, Inc.
PO Box 35000
Fresno, CA 93745
Phone – (559) 499-2100
info@montereylawngarden.com

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

2. Hazards Identification

2.1 Classification of the substance or mixture

Hazard Classification: Not classified as hazardous by OSHA
EPA Signal Word: Caution* (refer to Section 15)
Hazard Statements: None
Pictogram: None
Precautionary Statements: 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 and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

2.2 Other hazards: Do not use or store near heat or flame.

3. Composition/Information on Ingredients

3.1 Substance

Ingredient Name	CAS No	Weight-%
Clarified Hydrophobic Extract of Neem oil	947173-77-5	70

4. First Aid Measures

4.1 Description of first aid measures:

- Generic measures:** Call poison control center or doctor for treatment advice. Have the product container or label with you when you are calling the poison control center or doctor or going for treatment.
- Eye contact:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, if present, and continue rinsing eye.
- Skin contact:** Remove contaminated clothing and wash with plenty of water for 15-20 minutes.
- Inhalation:** Call poison control center or doctor for treatment advice.
- Ingestion:** Call poison control center or doctor for treatment advice.

4.2 Most important symptoms and effects, both acute and delayed

Eye and skin irritation

4.3 Indication of any immediate medical attention and special treatment needed

None known

5. Firefighting Measures

5.1 Extinguishing media

Suitable extinguishing media: Dry chemical, foam, carbon dioxide.

Unsuitable extinguishing media: Water

5.2 Special Hazards arising from the substance or mixture

Hazardous combustion products: None known.

5.3 Advice for firefighters

Protection of Firefighters: Not determined.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Same as applicators and handlers* see Section 8

For emergency responders: Same as applicators and handlers* see Section 8

6.2 Environmental precautions:

This product is hazardous to fish and aquatic vertebrates. For terrestrial uses: Do not apply directly to water or to areas where surface water is present, or to intertidal areas below the mean high water mark.

This product is toxic to bees exposed to direct treatment. Do not apply this product while bees are actively visiting the treatment area.

6.3 Methods and material for containment and cleaning up

Methods for containment: Do not use in a manner that would allow drift or rinse water from equipment cleaning to contaminate water sources or supplies.

Methods for cleaning up: None specified

Other information: None

6.4 Reference to other sections

See Section 8 for occupational exposure limits and risk management measures Refer to Section 13 for disposal considerations.

7. Handling and storage

7.1 Precautions for safe handling

The following equipment should be worn by handlers, applicators:

Long sleeved shirt, long pants

Chemical resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, or poly vinyl chloride)

Follow manufacturers' instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry

7.2 Conditions for safe storage, including any incompatibilities

Keep in original container. Store in a dry place, away from directly sunlight, feed, or foodstuffs. Keep containing tightly sealed when not in use. Do not store below 40°F 4°C).

7.3 Specific end use(s)

Use only as specified on label.

8. Exposure controls/personal protection

8.1 Control parameters

OSHA Permissible Exposure Limits (PELs): Not determined

ACGIH Threshold Limit Values: Not determined

Other Exposure Limits: Not determined

8.2 Exposure controls

Engineering controls None specified

Personal protective equipment

Eye/Face protection: Not specified

Skin protection: Long pants, long sleeved shirt, socks and shoes

Hand protection: Chemical resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, or poly vinyl chloride)

Body protection: Coveralls

Respiratory protection: None specified

Thermal hazards: None specified

General hygiene considerations: Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

Environmental exposure controls: For terrestrial use only: Do not apply directly to water or to areas where surface water is present, or to intertidal areas below the mean high water mark. This product is toxic to bees exposed to direct treatment. Do not apply this product while bees are actively visiting the treatment area.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:	Brown liquid
Odor:	Citrus/garlic
Odor threshold:	Not determined
pH: 1% dilution	4.5-6.5
Melting point/freezing point:	37°F (3°C)
Initial boiling point:	>275°F
Boiling range:	Not determined
Flash point:	140°F (60°C)
Evaporation rate:	Not determined

Flammability (solid, gas):	Not applicable
Lower & Upper flammability limits:	Not applicable
Vapor pressure:	Not determined
Volatility by weight:	25%
Density:	0.86-0.95 g/ml
Solubility:	Not determined
Partition coefficient; n-Octanol/ Water:	Not determined
Autoignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	Not determined
Explosive properties:	None known
Oxidising properties:	None known

9.2 Other Information: Not available

10. Stability and reactivity

10.1 Reactivity	None known
10.2 Chemical stability	Stable
10.3 Possibility of hazardous reactions	None known
10.4 Conditions to avoid	Low temperatures
10.5 Incompatible materials	None known
10.6 Hazardous decomposition products	None known

11. Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity

Toxicological information on the substance or mixture

LD₅₀ (oral):	>5000 mg/kg (test with similar product containing higher concentration of the same active ingredient)
LD₅₀ (dermal):	>2000 mg/kg (test with similar product containing higher concentration of the same active ingredient)
LC₅₀ (inhalation):	>6.17 ± 1.23 mg/L (test with similar product containing high concentration of the same active ingredient)
Skin corrosion/irritation:	Slightly irritating. Toxicity Category IV (test with similar product containing higher concentration of the same active ingredient)
Eye irritation:	Minimally irritating. Toxicity Category III (test with similar product containing higher concentration of the same active ingredient)
Respiratory or skin sensitization:	Mildly sensitizing (test with similar product containing higher concentration of the same active ingredient)

Other information on adverse health effects:

Carcinogenicity: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP

11.2 Reference to other sections

See Section 4 for symptoms and acute and delayed effects.

12. Ecological Information

12.1 Toxicity

Test species	Test method	Test substance	LC ₅₀
Bobwhite Quail	14-day acute oral	Active Ingredient	LD50 > 2,150 mg a.i./kg body weight
<i>Pimephales promelas</i> (Fathead Minnow)	96-hour	Active Ingredient	NOEC 96-hour: 2,000 mg/L
<i>Daphnia magna</i>	48-hour	Active Ingredient	NOEC 48-hour: 2,000 mg/L
<i>Apis mellifera</i> L.	This product is highly toxic to bees exposed to direct treatment Do not apply when bees are actively visiting the treatment area		

12.2 Persistence and degradability

Neem oil degrades rapidly and does not persist in the environment.

12.3 Bioaccumulative potential

Neem oil is not intended for use in aquatic environments. Appropriate cautions are required for use around bodies of water.

12.4 Mobility in soil

No data available.

12.5 Other adverse effects

No data available.

13. Disposal Considerations

13.1 Waste treatment methods

Disposal instructions:

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage:

Keep in original container. Store in a dry place, away from direct sunlight, feed, or foodstuffs. Keep containing tightly sealed when not in use. Do not store below 40°F (4°C).

Pesticide Disposal:

Wastes resulting from the use of this product must be disposed of on-site or at an approved waste disposal facility.

Container Handling:

Non-refillable container. Do not reuse or refill this container.

-for containers equal to or less than 5 gallons-

Triple rinse container (or equivalent) promptly after emptying. Triple rinse as following: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

-for containers greater than 5 gallons-

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Then offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

-for 250-gallon refillable containers-

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

14. Transportation Information

14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated.
14.4 Packing Group	Not regulated
14.5 Environmental hazards	Not regulated
14.6 Special precautions for user	Not regulated
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated

15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EPA: This product is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticidal chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION, KEEP OUT OF REACH OF CHILDREN

Harmful if absorbed through the skin. Causes moderate eye irritation.

This product is hazardous to fish and aquatic invertebrates.

This product is highly toxic to bees exposed to direct treatment

OSHA:	NA
TSCA Status:	Exempt
CERCLA Reportable Quantity:	N/A
SARA Title III:	
Section 302:	N/A
Section 311/312:	N/A
Section 313:	N/A
RCRA Status:	N/A

16. Other Information

Disclaimer:

To the best of our knowledge, the information contained herein is accurate. However, Lawn and Garden Products does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All material may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

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Revision Note:
New SDS – GHS Classification