



# SAFETY DATA SHEET

Issue Date: July 12, 2018

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 Numbers (24 Hour):** For Medical Emergencies, call ChemTel, Inc.: (800) 255-3924  
For Transportation Emergencies, call CHEMTREC®: (800) 424-9300

## 2. Hazards Identification

### 2.1 Classification of the substance or mixture

**Hazard Classification:** Combustible liquid class 3  
**EPA Signal Word:** Caution\* (refer to Section 15)  
**Hazard Statements:** Warning  
**Pictogram:**



**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 direct 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:

|   |                |
|---|----------------|
| <b>Appearance:</b>                                  | Brown liquid   |
| <b>Odor:</b>  | Citrus/garlic  |
| <b>Odor threshold:</b>                              | Not determined |
| <b>pH: 1% dilution</b>                              | 4.5-6.5        |
| <b>Melting point/freezing point:</b>                | 37°F (3°C)     |
| <b>Initial boiling point:</b>                       | >275°F         |
| <b>Boiling range:</b>                               | Not determined |
| <b>Flash point:</b>                                 | 140°F (60°C)   |
| <b>Evaporation rate:</b>                            | Not determined |
| <b>Flammability (solid, gas):</b>                   | Not applicable |
| <b>Lower &amp; Upper flammability limits:</b>       | Not applicable |
| <b>Vapor pressure:</b>                              | Not determined |
| <b>Volatility by weight:</b>                        | 25%            |
| <b>Density:</b>                                     | 0.86-0.95 g/ml |
| <b>Solubility:</b>                                  | Not determined |
| <b>Partition coefficient; n-Octanol/<br/>Water:</b> | Not determined |
| <b>Autoignition temperature:</b>                    | Not determined |
| <b>Decomposition temperature:</b>                   | Not determined |
| <b>Viscosity:</b>                                   | Not determined |
| <b>Explosive properties:</b>                        | None known     |
| <b>Oxidising properties:</b>                        | None known     |

**9.2 Other Information:** Not available

## 10. Stability and reactivity

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

## 11. Toxicological Information

### 11.1 Information on toxicological effects

#### **Acute Toxicity**

Toxicological information on the substance or mixture

|                                      |   |
|--------------------------------------|---|
| <b>LD<sub>50</sub> (oral):</b>       | >5000 mg/kg (test with similar product containing higher concentration of the same active ingredient)                                 |
| <b>LD<sub>50</sub> (dermal):</b>     | >2000 mg/kg (test with similar product containing higher concentration of the same active ingredient)                                 |
| <b>LC<sub>50</sub> (inhalation):</b> | >6.17 ± 1.23 mg/L (test with similar product containing high concentration of the same active ingredient)                             |
| <b>Skin corrosion/irritation:</b>    | Slightly irritating. Toxicity Category IV (test with similar product containing higher concentration of the same active ingredient)   |
| <b>Eye irritation:</b>               | 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 <sub>50</sub>                    |
|--|---|-------------------|-------------------------------------|
| Bobwhite Quail                                 | 14-day acute oral   | Active Ingredient | LD50 > 2,150 mg a.i./kg body weight |
| <i>Pimephales promelas</i><br>(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<br>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 ¼ 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

This product is exempted from DOT classification as a combustible liquid. This product is not classified as having sustained combustion per Title 49 CFR, Section 173.120 (b) (3).

- 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.

**Issue Date:**  
July 12, 2018

**Revision Date:**  
July 12, 2018 (Certis- January 14, 2016)

**Revision Note:**  
Update to Section 1.4