**SAFETY DATA SHEET (SDS)**

Monterey Neem Oil RTU


SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. PRODUCT IDENTIFIER

- **Product name:** Monterey Neem Oil RTU
- **Product Type:** Fungicide/Miticide/Insecticide
- **EPA Registration No.:** 70051-13-54705
- **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:** For use as a fungicide/miticide/insecticide on listed crops.
- **Uses advised against:** Any use not listed on the label.

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

- **Name:** Lawn and Garden Products, Inc.
- **Address:** PO Box 35000
  Fresno, CA 93745
  USA
- **Phone Number:** +1 (559) 499-2100
- **Website:** http://www.monereylawngarden.com

1.4. EMERGENCY TELEPHONE NUMBER

- **Emergency number:** CHEMTREC® 24 Hrs: +1 (800) 424-9300

SECTION 2: HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

- **OSHA Hazard Classification:** Not classified.
- **Signal Word:** None.
- **Hazard Statements:** None.
- **Pictogram:** None.
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Monterey Neem Oil RTU

Precautionary Statements: None.

2.2. OTHER HAZARDS
None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Active Ingredient(s)</th>
<th>CAS #</th>
<th>% w/w</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clarified Hydrophobic Extract of Neem Oil</td>
<td>947173-77-5</td>
<td>0.9%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazardous Ingredient(s)</th>
<th>Classification</th>
<th>CAS #</th>
<th>% w/w</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

SECTION 4: FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES
Treat symptomatically.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED
May cause minor eye or skin irritation. May cause mild sensitization.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED
Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA
Suitable Extinguishing Media: Water, dry chemical, foam, carbon dioxide.

Unsuitable Extinguishing Media: None known.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE
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Hazardous combustion products: None known.

5.3. ADVICE FOR FIREFIGHTERS;
Protection of Firefighters: Keep upwind of fire. Wear protective clothing and self-contained breathing apparatus. Fight fire from a safe distance.

5.4. OTHER INFORMATION
Not applicable.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES
For non-emergency personnel: Avoid substance contact. Ensure adequate ventilation. Evacuate the area and observe emergency procedures.
For emergency responders: Use appropriate personal protective equipment. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.2. ENVIRONMENTAL PRECAUTIONS

Environmental Hazards: To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area.
Bee Hazard: The 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 and Clean-Up: Caution: spillages may be slippery. For small spills, contain the spill with absorbent material and stop the flow. Prevent contamination of water sources. Collect as much material as possible. Transfer to a suitable, clean container for disposal or recovery. Seal the container and handle in an approved manner. Reclaim material if possible.
Other Information: Dispose of in accordance with all Federal, State and local procedures.

6.4. REFERENCE TO OTHER SECTIONS
Refer to Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE
7.1. PRECAUTIONS FOR SAFE HANDLING

Not for use in food-handling areas.

Shake well before using.

Thorough plant coverage is essential to obtain optimal levels of control. Do not apply to wilted or otherwise stressed plants, or to newly transplanted material prior to root establishment. As with other pest control products, exercise care in timing applications to early morning/late evening to minimize the potential for leaf burn. Use with care on plants with tender tissue. Check for leaf burn in small-scale trials prior to use.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

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

PESTICIDE STORAGE: Keep in original container. Store away from direct sunlight, feed, or foodstuffs. Keep container tightly sealed when not in use. Keep from freezing.

SECTION 8: EXPOSURE CONTROLS/PERSOAL PROTECTION

8.1. CONTROL PARAMETERS

<table>
<thead>
<tr>
<th>Subtitle</th>
<th>Substance</th>
<th>Occupational Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Clarified hydrophobic extract of neem oil</td>
<td>OSHA PELs: not established</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH TLVs: not established</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No occupational limit assigned.</td>
</tr>
</tbody>
</table>

8.2. EXPOSURE CONTROLS

None specified.

8.2.1. ENGINEERING CONTROLS:

Not applicable.

8.2.2. PERSONAL PROTECTIVE EQUIPMENT:

None specified.

8.2.3. ENVIRONMENTAL EXPOSURE CONTROLS

To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area.

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES
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**Appearance:** Milky white liquid
**Odor:** Sour garlic
**Odor Threshold:** Not determined
**pH:** 6.5 – 7.1
**Melting Point / Freezing Point:** ~0°C
**Initial Boiling Point:** ~100°C
**Boiling Range:** Note determined
**Flash Point:** Not flammable
**Evaporation Rate:** Not determined
**Flammability (solid, gas):** Not applicable
**Lower & Upper Flammability Limits:** Not applicable
**Vapor Pressure:** Not determined
**Vapor Density (Air = 1):** Not determined
**Density:** 0.943 – 1.04 g/mL
**Solubility:** Soluble in water
**Partition Coefficient (n-octanol/water):** Not determined
**Auto-ignition Temperature:** Not determined
**Decomposition Temperature:** Not determined
**Viscosity:** 1.001 cP
**Other relevant properties:** Not applicable

### 9.2. OTHER INFORMATION

**Explosion properties:** Not explosive
**Oxidizing properties:** Not an oxidizer

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1. REACTIVITY

Not reactive.

#### 10.2. CHEMICAL STABILITY

Chemically stable if stored and handled properly according to the label.

#### 10.3. POSSIBILITY OF HAZARDOUS REACTIONS

No known or expected hazardous reactions when handled and stored according to stated provisions.

#### 10.4. CONDITIONS TO AVOID

Do not freeze.

Revision Date: 2020-04-28
Replaces: 2015-03-23
Reason for Revision: Periodic Review
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10.5. INCOMPATIBLE MATERIALS
None known.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS
None known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. LIKELY ROUTES OF EXPOSURE
Oral, dermal, ocular, inhalation

11.2 SYMPTOMS RELATED TO PHYSICAL, CHEMICAL, AND/OR TOXICOLOGICAL CHARACTERISTICS
May cause minor eye or skin irritation. May cause mild skin sensitization.

11.3 EFFECTS (DELAYED/IMMEDIATE/CHRONIC) FROM SHORT- AND LONG-TERM EXPOSURE
See section 4.

11.4 ACUTE TOXICITY

<table>
<thead>
<tr>
<th>Test</th>
<th>Results</th>
<th>US EPA Toxicity Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute oral LD&lt;sub&gt;50&lt;/sub&gt;</td>
<td>&gt; 5,000 mg/kg (test material: 90% active ingredient)</td>
<td>IV</td>
</tr>
<tr>
<td>Acute dermal LD&lt;sub&gt;50&lt;/sub&gt;</td>
<td>&gt; 2,000 mg/kg (test material: 100% active ingredient)</td>
<td>III</td>
</tr>
<tr>
<td>Acute inhalation LC&lt;sub&gt;50&lt;/sub&gt;</td>
<td>&gt; 6.17 mg/L (test material: 90% active ingredient)</td>
<td>IV</td>
</tr>
<tr>
<td>Eye irritation:</td>
<td>Mildly and reversibly irritating (test material: 90% active ingredient)</td>
<td>III</td>
</tr>
<tr>
<td>Skin irritation:</td>
<td>Slight irritant (test material: 90% active ingredient)</td>
<td>IV</td>
</tr>
<tr>
<td>Respiratory or skin sensitization:</td>
<td>Mild skin sensitizer (test material: 90% active ingredient)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

11.5 OTHER INFORMATION ON ADVERSE HEALTH EFFECTS

Carcinogenicity
NTP: not listed
IARC: not listed
OSHA: not listed

SECTION 12: ECOLOGICAL INFORMATION

12.1. TOXICITY

<table>
<thead>
<tr>
<th>Species</th>
<th>Test</th>
<th>Study Duration</th>
<th>Conditions</th>
<th>Test substance</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bobwhite Quail (Colinus virginianus)</td>
<td>Avian acute oral</td>
<td>14-day</td>
<td>Gavage</td>
<td>TGAI</td>
<td>LD&lt;sub&gt;50&lt;/sub&gt; &gt; 2,150 mg/kg bw</td>
</tr>
<tr>
<td>Fathead Minnow (Pimephales promelas)</td>
<td>Acute freshwater fish</td>
<td>96-hour</td>
<td>Static</td>
<td>TGAI</td>
<td>LC&lt;sub&gt;50&lt;/sub&gt; &gt; 2,000 mg/L</td>
</tr>
</tbody>
</table>
12.2.  PERSISTENCE AND DEGRADABILITY
Clarified Hydrophobic Extract of Neem Oil degrades rapidly and does not persist in the environment.

12.3.  BIOACCUMULATIVE POTENTIAL
Clarified Hydrophobic Extract of 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
Clarified Hydrophobic Extract of Neem Oil is a natural extract from the seeds of the neem tree (Azadirachta indica). It is not expected to move or leach.

12.5.  OTHER ADVERSE EFFECTS
None noted. See 12.2 above.

SECTION 13:  DISPOSAL CONSIDERATIONS

13.1.  WASTE TREATMENT METHODS
Do not contaminate water, food, or feed by storage or disposal.

Pesticide and Container Handling: If empty: Nonrefillable container. Do not reuse or refill this container. Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

SECTION 14:  TRANSPORTATION INFORMATION

14.1.  UN NUMBER
None. Not applicable.

14.2.  UN PROPER SHIPPING NAME
None. Not applicable.

14.3.  TRANSPORT HAZARD CLASS(ES)
Not applicable.
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14.4. PACKING GROUP
Not applicable.

14.5. ENVIRONMENTAL HAZARDS
None. Not classified as a Marine Pollutant.

14.6. SPECIAL PRECAUTIONS FOR USER
None.

14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE
Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

EPA/FIFRA:
This product is a pesticide product and is subject to certain labeling requirements under federal pesticide law. These requirements may 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.

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION. Harmful if inhaled. Avoid breathing spray mist. Causes moderate eye irritation. Harmful if absorbed through skin. 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. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

OSHA:
N/A.

TSCA STATUS:
Exempt.

CERCLA REPORTABLE QUANTITY:
N/A.
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SARA TITLE III:
Section 302: N/A
Section 311/312: N/A
Section 313: N/A

RCRA STATUS:
N/A

SECTION 16: OTHER INFORMATION

ABBREVIATIONS

OSHA  US Occupational Health and Safety Administration
EPA  US Environmental Protection Agency
FIFRA  Federal Insecticide, Fungicide, and Rodenticide Act
CERCLA  Comprehensive Environmental Response, Compensation, and Liability Act (Superfund)
RCRA  Resource Conservation and Recovery Act
SARA  Superfund Amendments and Reauthorization Act
TSCA  Toxic Substances Control Act
PEL  Permissible exposure limit
STOT  Specific target organ toxicity
TLV  Threshold limit value
TWA  Time-weighted average
LD₅₀  Median lethal dose: dose resulting in 50% mortality in the test species
LC₅₀  Median lethal concentration: concentration resulting in 50% mortality in the test species
EC₅₀  Median effective concentration: concentration resulting in 50% reduction in algae growth or algae growth rate, or Daphnia immobilization
PPE  Personal protective equipment
PBT  Persistent, bioaccumulative, and toxic
vPvB  Very persistent, very bioaccumulative

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