



Monterey® Neem Oil RTU

SDS per US OSHA Hazard Communication Standard (HazCom) 2012, 29 CFR §1910.1200

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.montereylawngarden.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.

Precautionary Statements: None.

2.2. OTHER HAZARDS

None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Active Ingredient(s)		CAS #	% w/w
Clarified Hydrophobic Extract of Neem Oil		947173-77-5	0.9%
Hazardous Ingredient(s)	Classification	CAS #	% w/w
None	N/A	N/A	N/A

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

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/PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

Substance

Clarified hydrophobic extract of neem oil

Occupational Exposure Limits

OSHA PELs: not established

ACGIH TLVs: not established

No occupational limit assigned.

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

Revision Date: 2024-05-23

Reason for Revision: Periodic Review

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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.

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

Test	Results	US EPA Toxicity Category
Acute oral LD₅₀	> 5,000 mg/kg (test material: 90% active ingredient)	IV
Acute dermal LD₅₀	> 2,000 mg/kg (test material: 100% active ingredient)	III
Acute inhalation LC₅₀	> 6.17 mg/L (test material: 90% active ingredient)	IV
Eye irritation:	Mildly and reversibly irritating (test material: 90% active ingredient)	III
Skin irritation:	Slight irritant (test material: 90% active ingredient)	IV
Respiratory or skin sensitization:	Mild skin sensitizer (test material: 90% active ingredient)	Not applicable

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

Species	Test	Study Duration	Conditions	Test substance	Results
Bobwhite Quail (<i>Colinus virginianus</i>)	Avian acute oral	14-day	Gavage	TGAI	LD ₅₀ > 2,150 mg/kg bw
Fathead Minnow (<i>Pimephales promelas</i>)	Acute freshwater fish	96-hour	Static	TGAI	LC ₅₀ > 2,000 mg/L

Species	Test	Study Duration	Conditions	Test substance	Results
Daphnid (<i>Daphnia magna</i>)	Acute freshwater invertebrate	48-hour	Static	TGAI	LC ₅₀ > 2,000 mg/L
Honey bee (<i>Apis mellifera</i>)	The product is toxic to bees exposed to direct treatment. Do not apply this product while bees are actively visiting the treatment area.				

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.

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.

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
LD ₅₀	Median lethal dose: dose resulting in 50% mortality in the test species
LC ₅₀	Median lethal concentration: concentration resulting in 50% mortality in the test species
EC ₅₀	Median effective concentration: concentration resulting in 50% reduction in algae growth or algae growth rate, or <i>Daphnia</i> immobilization
PPE	Personal protective equipment
PBT	Persistent, bioaccumulative, and toxic
vPvB	Very persistent, very bioaccumulative
MARPOL 73/78	International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978 (Marine Pollution 1973/1978 ,

Disclaimer:

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