Material Safety Data Sheet

Product Name: ECOWORKS EC® - BOTANICAL INSECTICIDE, MITICIDE, NEMATICIDE & FUNGICIDE

1. Chemical, Product and Company Identification

ECOWORKS EC® Botanical Insecticide, Miticide, Nematicide and Fungicide- End use formulation

EPA Signal WordChemical NameChemical ClassEPA Registration NumberCAUTIONNEEM OILNEEM BIOLOGICAL89152-4

Formulator:

ECOSTADT TECHNOLOGIES LLC 1024 Iron Point Road, Suite 100-1318

Folsom, CA 95630 Phone: (916) 357-6607 Fax : (916) 357-6501 **Emergency Telephone Numbers:**

National Pesticide Information Center (NPIC)

1-800-858-7358 – 6.30 am to 4.30 pm Pacific Time

1-800-222-1222 – During Other Times

CHEMTREC®

1-800-424-9300 / 1-703-527-3887

2. Ingredients

Chemical Component	Percent Range	CAS Numbers	OSHA-PEL	ACGIH-TLV	NTP/IARC/OSHA CARCINOGEN	OTHER
NEEM OIL (COLD PRESSED)	70%	8002-65-1	N/A	N/A	N/A	N/A
Other Ingredients	30%		N/A	N/A	N/A	N/A

3. Hazards Identification

Emergency Overview: Physical Properties

Appearance: Brownish Green Liquid

Odor: Garlic odor

Hazardous Decomposition Products: Unknown

Unusual Fire, Explosion, and Reactivity Hazards: Unknown

Aquatic Toxicity: Toxic to fish

Potential Health Effects

Acute Effects: Non- irritant to skin & eye, Non-sensitizer

Symptoms of Acute Exposure: None

Chronic Effects: Unknown

Carcinogenicity: None of the components in this material is listed by

IARC, NTP, OSHA, (or) ACGIH as a carcinogen.

US-GHS Classification: Based on Acute Oral, Acute Dermal, Dermal

& Eye Irritation studies, the product is not classifiable.

4. First Aid Measures

Primary Routes of Exposure:

Inhalation, Ingestion, Skin, and Eyes

Sign and Symptoms of Exposure:

Inhalation: May be irritating to mucous membranes and excessive

exposure may result in drowsiness.

Ingestion: May cause drowsiness

Ingestion: May cause drowsiness. Skin Contact: No irritation. Eye Contact: No irritation.

Emergency First Aid Procedure:

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible. Get medical attention.

If Ingested: Induce vomiting by gastric lavage. Call a physician.

If on Skin: Take off contaminated clothing. Wash skin with plenty

of soap and water. Call a physician for medical advice.

If in Eyes: Hold eye open and rinse slowly & gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes and then continue rinsing eyes with excessive water. Call a physician for medical advice.

5. Fire Fighting Measures and Explosion Hazard Data

Flash Point: >216.5 °F (102.5 °C)

Upper & Lower Flammable Limits: Unknown **Auto ignition Temperature:** Not established

Fire Extinguishing Media: CO₂, Dry Chemical, Foam

Special Fire Fighting Procedures: Evacuate personnel to a safe area. Wear positive-pressure breathing apparatus and full protective clothing. Fight fire from maximum distance. Stay upwind and out of low areas.

6. Accidental Release Measures

Steps to be Taken if Material is Released or Spilled

General: Consult an expert on the disposal of recovered material. Ensure disposal is in compliance with government requirements and ensure conformity of local disposal regulations. Notify the appropriate authorities immediately. Take all additional action necessary to prevent and remedy the adverse effects of the spill.

Specific: Evacuate personnel, thoroughly ventilate area, and use self contained breathing apparatus and protective clothing. Dike spill. Absorb spilled material with Dri-Rite, sawdust, sand, or other adsorbent material, taking care not to generate dust. Collect clean-up material into drums, cover, and label for disposal according to local regulations. Scrub contaminated area with detergent and water. Prevent liquid from entering sewers, waterways, or low areas. Product is not regulated under RCRA or CERCLA.

7. Handling and Storage

Precautions in Handling: Do not contaminate water, food, or feed by storage or disposal. Wash hands before eating, drinking, chewing gum, using tobacco products, or using the toilet. Remove clothing immediately if pesticide gets inside and then wash thoroughly and put on clean clothes.

Storage: Store in cool, dry place. Keep in tightly closed and original containers. Do not store this product above 105 °F or below 320F for extend periods of time. Best to keep in cool dry place and to avoid direct sunlight. Do not re-fill or re-use containers. Dispose of containers in an approved waste facility.

Product Name: ECOWORKS EC® Revision Date: July 17, 2019

13. Disposal Considerations 8. Exposure Controls/Personal Protection **Ventilation Requirements:** Do not contaminate water, food, or feed by storage or disposal. Dispose of containers in an approved disposal Thorough ventilation is recommended in case of accidental facility - refer to product labeling. Open dumping is spillage. prohibited. Do not re-fill (or) re-use containers. Ensure **Personal Protective Equipment:** compliance with Local, State, and Federal regulations. Do not Nonirritant to skin and eyes. Avoid breathing vapor. Prolonged or flush to surface water or sanitary sewer systems. frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes, or clothing. Wash 14. Transportation Information thoroughly with soap and water after handling. Wash IMCO Class /DOT Classification: Not regulated contaminated clothing before reuse. IMDG/IMO: Not regulated Manufacturing and Packaging Employees: IATA: Not regulated Eye/Face: Wear chemical safety goggles TDG: Not regulated Skin Protection: Wear protective gloves Special Instructions: No special instruction on handling Respiratory Protection: Thorough ventilation is recommended in Flammability: Non-flammable case of accidental spillage UN Number: Not classified as Dangerous cargo and Not Additional Information: Wash hands before eating, drinking, available chewing gum, using tobacco products, or using the toilet. Remove clothing immediately if pesticide gets inside and then wash 15. Regulatory Information thoroughly and put on clean clothing. **SARA Title III Classifications** Applicators and Handlers: Must wear long-sleeved shirt and long Section 302/304: Not applicable pants, waterproof gloves, and shoes plus socks. Section 311/312: Not applicable 9. Physical and Chemical Properties Section 313 Chemical(s): Not applicable Brownish green liquid Appearance: **Proposition 65** Specific Gravity: 0.897 g/cm³ @ 20 °C Does not contain any Proposition 65 chemicals. Dispersion in Water: Forms emulsion **CERCLA Reportable Quantity (RQ)** :Ha 6.9 @ 25 °C Not applicable Odor: Garlic odor Viscosity: **RCRA Classification** 19.31 cps at 20 °C **Boiling point:** Under RCRA, it is the responsibility of the product user to Unknown determine at the time of disposal, whether a material containing Flash point: 115 °C (Not Flammable) the product or derived from the product should be classified as Vapor pressure: 0.1862 kPa a hazardous waste. 10. Stability and Reactivity **TSCA Status** Stability: Stable at ordinary conditions of use and storage. Not Applicable Incompatibility: Incompatible with acid, alkaline, and oxidizing **US-GHS Classification** substances Based on Acute Oral, Acute Dermal, Dermal & Eye Irritation **Decomposition/ By Products:** Unknown studies, the product is not classifiable. tud Hazardous Polymerization: Unknown. 16. Other Information 11. Toxicological Information **NFPA Hazard Ratings Acute Toxicity Studies:** Health: 0 Least **Acute Oral Toxicity:** Rat $LD_{50} > 5,000 \text{ mg/kg}$ 0 1 Flammability: Slight **Acute Dermal Toxicity:** Rat $LD_{50} > 5,000 \text{ mg/kg}$ 0 2 Moderate Reactivity: Rabbit -Non-Irritant **Acute Dermal Irritation** 3 Hiah **Acute Eye Irritation:** Rabbit - Non-Irritant Severe Skin Sensitization: Guinea Pig – Non-sensitizer Acute Inhalation: Rats > 2.90mg/L Prepared by: ECOSTADT TECHNOLOGIES L.L.C. The information contained herein is provided in good faith and is 12. Ecological Information believed to be correct as of the date. However, ECOSTADT TECHNOLOGIES L.L.C. makes no representation as to the Acute Fish Toxicity (Rainbow Trout): Mildly Toxic comprehensiveness or accuracy of the information. It is expected Acute Daphnia Immobilization: Mildly Toxic that individuals receiving the information will exercise their Effect on Birds: Non-Toxic independent judgment in deforming its appropriateness for a specific purpose. Accordingly, ECOSTADT TECHNOLOGIES L.L.C. will not be responsible for damage of any kind resulting

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from the use of or reliance upon such information.