

# Material Safety Data Sheet

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

## 1. Chemical, Product and Company Identification

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

<u>EPA Signal Word</u>	<u>Chemical Name</u>	<u>Chemical Class</u>	<u>EPA Registration Number</u>
CAUTION	NEEM OIL	NEEM BIOLOGICAL	89152-4

### 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

<u>Chemical Component</u>	<u>Percent Range</u>	<u>CAS Numbers</u>	<u>OSHA-PEL</u>	<u>ACGIH-TLV</u>	<u>NTP/IARC/OSHA CARCINOGEN</u>	<u>OTHER</u>
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.

**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:** CO<sub>2</sub>, 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 up-wind 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 32°F 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.

**8. Exposure Controls/Personal Protection****Ventilation Requirements:**

Thorough ventilation is recommended in case of accidental spillage.

**Personal Protective Equipment:**

Nonirritant to skin and eyes. Avoid breathing vapor. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Wash contaminated clothing before reuse.

**Manufacturing and Packaging Employees:**

**Eye/Face:** Wear chemical safety goggles

**Skin Protection:** Wear protective gloves

**Respiratory Protection:** Thorough ventilation is recommended in case of accidental spillage

**Additional Information:** 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 clothing.

**Applicators and Handlers:** Must wear long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks.

**9. Physical and Chemical Properties**

<b>Appearance:</b>	Brownish green liquid
<b>Specific Gravity:</b>	0.897 g/cm <sup>3</sup> @ 20 °C
<b>Dispersion in Water:</b>	Forms emulsion
<b>pH:</b>	6.9 @ 25 °C
<b>Odor:</b>	Garlic odor
<b>Viscosity:</b>	19.31 cps at 20 °C
<b>Boiling point:</b>	Unknown
<b>Flash point:</b>	115 °C (Not Flammable)
<b>Vapor pressure:</b>	0.1862 kPa

**10. Stability and Reactivity**

**Stability:** Stable at ordinary conditions of use and storage.

**Incompatibility:** Incompatible with acid, alkaline, and oxidizing substances

**Decomposition/ By Products:** Unknown

**Hazardous Polymerization:** Unknown.

**11. Toxicological Information****Acute Toxicity Studies:**

<b>Acute Oral Toxicity:</b>	Rat LD <sub>50</sub> > 5,000 mg/kg
<b>Acute Dermal Toxicity:</b>	Rat LD <sub>50</sub> > 5,000 mg/kg
<b>Acute Dermal Irritation</b>	Rabbit -Non-Irritant
<b>Acute Eye Irritation:</b>	Rabbit – Non-Irritant
<b>Skin Sensitization:</b>	Guinea Pig – Non-sensitizer
<b>Acute Inhalation:</b>	Rats >2.90mg/L

**12. Ecological Information**

**Acute Fish Toxicity (Rainbow Trout):** Mildly Toxic

**Acute Daphnia Immobilization:** Mildly Toxic

**Effect on Birds:** Non-Toxic

**13. Disposal Considerations**

Do not contaminate water, food, or feed by storage or disposal. Dispose of containers in an approved disposal facility – refer to product labeling. Open dumping is prohibited. Do not re-fill (or) re-use containers. Ensure compliance with Local, State, and Federal regulations. Do not flush to surface water or sanitary sewer systems.

**14. Transportation Information**

**IMCO Class /DOT Classification:** Not regulated

**IMDG/IMO:** Not regulated

**IATA:** Not regulated

**TDG:** Not regulated

**Special Instructions:** No special instruction on handling

**Flammability:** Non-flammable

**UN Number:** Not classified as Dangerous cargo and Not available

**15. Regulatory Information****SARA Title III Classifications**

**Section 302/304:** Not applicable

**Section 311/312:** Not applicable

**Section 313 Chemical(s):** Not applicable

**Proposition 65**

Does not contain any Proposition 65 chemicals.

**CERCLA Reportable Quantity (RQ)**

Not applicable

**RCRA Classification**

Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

**TSCA Status**

Not Applicable

**US-GHS Classification**

Based on Acute Oral, Acute Dermal, Dermal & Eye Irritation studies, the product is not classifiable.

**16. Other Information****NFPA Hazard Ratings**

**Health:** 0

**Flammability:** 0

**Reactivity:** 0

0	Least
1	Slight
2	Moderate
3	High
4	Severe

**Prepared by:** ECOSTADT TECHNOLOGIES L.L.C.

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