

**Safety Data Sheet**  
**ECOWORKS EC® - Insecticide, Miticide,**  
**Nematicide and Fungicide.**  
**End use Formulation**  
 According to Regulation (EC) No. 1907/2006



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**SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION**

Product Name	ECOWORKS EC®
EPA Registration Number	89152-4
Company Identification	EcoStadt Technologies LLC 1024 Iron Point Road, Suite 100-1318 Folsom, CA 95630 Phone: +1 (916) 357-6607 Fax: +1 (916) 357-6501 Email: <a href="mailto:info@ecostadt.com">info@ecostadt.com</a> Website: <a href="http://www.ecostadt.com">www.ecostadt.com</a>
Emergency Calls	1. 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 2. Chemtrec: 1-800-424-9300 / 1-703-527-3887
Product Use	Insecticide, Miticide, Nematicide and Fungicide. End use Formulation

**SECTION 2: HAZARD(S) IDENTIFICATION**

Classification of Substance	Harmful if inhaled
GHS Labeling Elements	The substance is classified and labeled according to the Globally Harmonized System (GHS)
Hazard Pictograms	Warning
Signal Word	
Hazard-Determined Components of Labeling	Neem oil
Hazard Statements	H332: Harmful if inhaled

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Precautionary Statements	1. Prevention: P261: Avoid breathing dust / fume / gas / mist / vapors / spray P271: Use only outdoors or in a well-ventilated area 2. Response: P304 & P340: If Inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312: Call a poison center or doctor/physician if you feel unwell.
Other Information	Toxic to fish and aquatic life.
<b>SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS</b>	
Ingredients	Neem Oil (Cold Pressed) - 70%
CAS Number	8002-65-1
Other Ingredients	Non-Toxic and Non-Hazardous* - 30% *Proprietary Components
<b>SECTION 4: FIRST AID MEASURES</b>	
Symptoms	1. Inhalation: May be irritating to mucous membranes and excessive exposure may result in drowsiness. 2. Swallowed: May cause drowsiness.
Skin	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.
Inhalation	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.

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Eyes	Rinse immediately with plenty of water, also under eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or doctor for treatment advice.
Swallowed	Induce vomiting by gastric lavage. Call a physician or poison control center immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
Note to Physicians	Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact the Poison Control Center 1-800-222-1222.

**SECTION 5: FIRE FIGHTING MEASURES:**

Fire and Explosive Hazards	Flash Point: >216.5 °F (102.5 °C), Auto ignition temperature has not been established.
Extinguishing Media	Use dry powder or sand, carbon dioxide, or regular foam. Move containers from fire area if you can do it without risk.
Special Firefighting Procedures	Fireman should wear self-contained breathing apparatus with full facepiece, complete fire protection clothes and shoes. Do not access if tank is on fire. Avoid inhalation of materials. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. See Section 10 for decomposition products.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	Consult an expert on the disposal of recovered material. Wear approved respiratory protection, chemically compatible gloves and protective clothing. Keep unprotected people away. Allow work against the wind and remove all people upwind. Use adequate ventilation to prevent inhalation. Prevent use of contaminated building, area, and equipment until decontaminated. Evacuate personnel, thoroughly ventilate area, and use self-contained breathing apparatus and protective clothing.
Environmental Precautions	Harmful to aquatic organisms. Prevent runoff and contact with sources of water including but not limited to drains, sewers, lakes and ponds. In case of large spill, inform the relevant authorities.
Methods and Materials for containment and cleaning up	<ol style="list-style-type: none"> <li>1. In case small leak or spill: 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.</li> <li>2. In case large leak or spill: Stay upwind and keep out of low areas. Prevent from contaminating waterways. Dispose of waste in accordance with local regulation. Wear appropriate respirator and other protective clothing. Shut off source of leak only if safe to do so. Dike and contain. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand, or other suitable material; place in non-leaking containers and seal tightly for proper disposal.</li> </ol>

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Reference to Other Sections	<ol style="list-style-type: none"> <li>1. See Section 7 for information on safe handling.</li> <li>2. See Section 8 for information on personal protection equipment.</li> <li>3. See Section 13 for disposal information.</li> </ol>
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## SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling	<p>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. Use product only in well-ventilated place. Do not contaminate water, food, or feed by storage. Since emptied containers retain product residue (vapor, liquid) follow all SDS and label warnings even after container is empty. Keep protective respiratory device available.</p>
Conditions for Safe Storage, including any Incompatibilities	<ol style="list-style-type: none"> <li>1. Storage: Keep in tightly closed and original containers. Do not re-fill or re-use containers. Dispose of containers in an approved waste facility. Keep out of the reach of children. Keep away from food, drink and animal feeding stuff. Keep in properly labeled container.</li> <li>2. Requirements to be met by storerooms and receptacles: Store in cool, dry place. 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.</li> </ol>
Reference to Other Sections	<ol style="list-style-type: none"> <li>1. See Section 10 for incompatibilities</li> <li>2. See Section 6 for accidental release measure</li> </ol>

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Max allowed Concentration	No Data
Way of Measurement	No Data

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Engineering Control	Use adequate ventilation to keep risk of inhalation low. Take safety shower after handling equipment. An adequate supply of clean potable water should be available to allow thorough flushing of the skin and eyes in even of contact with this material.
Personal Protection	<ol style="list-style-type: none"> <li>1. Eyes: Wear appropriate protective eyeglasses or chemical safety goggles.</li> <li>2. Respirators: Ensure adequate ventilation, especially in confined areas.</li> <li>3. Body: Wear appropriate chemical resistant overalls and rubber boots and rubber gloves. Avoid any skin exposure. Wash separately from other laundry.</li> <li>4. Hands: Wear protective glove.</li> </ol>
	<ol style="list-style-type: none"> <li>5. General protective &amp; Hygienic measures: When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs. Wash contaminated clothing before reuse.</li> </ol>

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Physical State	Liquid
Color	Brownish green
Odor	Garlic odor
pH Value	6.9 @ 25° C
Viscosity	19.31 cps at 20° C
Vapor Pressure (25°C)	0.1862 kPa
Melting point	Not available
Boiling Point	Not available

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Freezing Point	4° C
Specific Gravity	0.897 g/cm 3 @ 20° C
Density (g/cm 3)	1.08
Critical pressure (Mpa)	Not available
Critical temperature	Not available
Flash point (°C)	>216.5° F (102.5° C)
Flammable Limits	Not available
Auto-ignition temperature	Not Established
Burning temperature (°C)	Not available
Explosion	Not available
Partition Coefficient	Not available
Solubility	Forms emulsion in water

### SECTION 10: STABILITY AND REACTIVITY

Chemical Stability	This material is stable at the normal storage conditions.
Incompatibility (Materials to Avoid)	Incompatible with acid, alkaline, and oxidizing substances.
Conditions to Avoid	Elevated temperature.
Decomposition Products	Unknown
Hazardous Polymerization	Unknown
Reference to other sections	See Section 5 for static discharge potential

### SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity	LD/LC <sub>50</sub> values that are relevant for classification: 1. Oral: LD <sub>50</sub> : > 5,000 mg / kg 2. Inhalation: LC <sub>50</sub> > 2.90 mg / L (Rats), 3. Dermal: > 5,000 mg / kg.
Eye Irritation	Non-Irritant (Rabbits)

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Dermal Irritation	Non-Irritant (Rabbits)
Skin Sensitization	Not a Sensitizer (Guinea Pig)
Primary Irritant effect	Harmful if inhaled
Respiratory Sensitization	Based on available data, the classification criteria are not met
Germ Cell Mutagenicity	Based on available data, the classification criteria are not met
Carcinogenicity	Based on available data, the classification criteria are not met
Reproductive Toxicity	Based on available data, the classification criteria are not met
STOT-Single Exposure	Based on available data, the classification criteria are not met
STOT-Repeated Exposure	Based on available data, the classification criteria are not met
Chronic Toxicity	Unknown
Aspiration Hazard	Based on available data, the classification criteria are not met

**SECTION 12: ECOLOGICAL DATA**

Eco-Toxicity	1. Acute Fish Toxicity (Rainbow Trout): Slightly Toxic 2. Acute Daphnia Immobilization: Slightly Toxic
Effect on Birds	Non-Toxic
Effect on Aquatic Life	Very toxic to aquatic life with long lasting effects.

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### SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal	Pesticide waste may be acutely hazardous. Dispose of waste in accordance with all applicable Federal, State, and local laws. Improper disposal of excess pesticide, spray mixture, or rinsate is violation of Federal Law. If this waste cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. Do not contaminate water, food, or feed by disposal.
Container Disposal	Do not distribute, make available, furnish or reuse empty containers. Triple rinse (or equivalent), then offer for recycling or reconditioning if container reuse is permitted. If container reuse is prohibited, puncture metal containers and dispose of in a sanitary landfill, or by other approved State and local authorities, if burned, stay out of smoke.

### SECTION 14: TRANSPORT INFORMATION

DOT Classification	Not regulated
IMDG/IMO	Not regulated
IATA	Not regulated
TDG	Not regulated
Special Instructions	No special instruction on handling required
Flammability	Non-flammable
Transport by Air	Safe for Air Transport

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**SECTION 15: REGULATORY DATA**

SARA Title III Classifications	1. Section 302/304: Not applicable 2. Section 311/312: Not applicable 3. Section 313 Chemical(s): Not applicable 4. 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	
<b>Hazard Data</b>	<b>FIFRA Classification / Typical Hazard Labeling, as outlined in EPA Label Review Manual</b>	<b>OSHA HCS Requirement for Section 2 of SDS</b>
Signal Word	Caution	WARNING
Acute Toxicity Oral LD <sub>50</sub> >5,000 mg / kg	(Category IV) No Statement required	Not classified
Acute Toxicity Dermal LD <sub>50</sub> >5,000 mg / kg	(Category IV) Harmful if absorbed through skin	Not classified
Acute Toxicity Inhalation LD <sub>50</sub> >2.90 mg/L	(Category IV) Harmful if inhaled	(Category 4) Exclamation Mark Harmful if inhaled
Skin Irritation	(Category IV) No Statement required	Not classified
Eye Irritation	(Category IV) No Statement required	Not classified
Skin Sensitization	Not a sensitizer	Not classified

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Germ Cell Mutagenicity	Not labeled	Not classified
Carcinogenicity	Not labeled	Not classified
Reproductive / Developmental Toxicity	Not labeled	Not classified
Specific target organ toxicity, single exposure	Not labeled	Not classified
Specific target organ toxicity, repeated exposure	Not labeled	Not classified
Aspiration	Not labeled	Not classified
Environmental (aquatic) toxicity	This pesticide is toxic to fish & aquatic invertebrates	Not within OSHA's jurisdiction and therefore not required on SDS

**FIFRA Classification:**

This chemical 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-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also included other important information, including direction for use. Following is the hazard information as required on the pesticide label:

**Caution**

Harmful if inhaled or absorbed through skin.

Avoid contact with skin, eyes, or clothing.

Washing thoroughly with soap and water after handling.

Avoid breathing spray mist.

Remove contaminated clothing and wash clothing before use.

This pesticide is toxic to fish and aquatic invertebrates.

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GHS Labeling Elements:	<p>The substance is classified and labeled according to the Globally Harmonized System (GHS):</p> <p>Hazard pictograms:          Signal Word: Warning          Hazard-determined components of labeling: Neem oil          Hazard statements:          H332: Harmful if inhaled</p>
<b>SECTION 16: ADDITIONAL INFORMATION</b>	
NFPA:	<p>Health hazards: 0          Flammability: 0          Instability: 0          Physical and Chemical Properties: -</p>
Reference:	<p>The information contained herein is provided in good faith and is believed to be correct as of the date. However, ECOSTADT TECHNOLOGIES L.L.C. makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a specific purpose. Accordingly, ECOSTADT TECHNOLOGIES L.L.C. will not be responsible for damage of any kind resulting from the use of or reliance upon such information.</p>
Date Prepared:	12.13.2019
<p>ECOWORKS EC® is a registered trademark of ECOSTADT TECHNOLOGIES L.L.C.          SDS Date Issue: 12/13/2019</p>	