



SAFETY DATA SHEET

I. CHEMICAL PRODUCT INFORMATION

Product Name ECOWORKS EC (EPA Reg. No. 89152-4)
Recommended Use Botanical Insecticide, Miticide, Nematicide & Fungicide
Manufacturer ECOSTADT TECHNOLOGIES LLC
1024 Iron Point Road, Suite 100-1318
Folsom, CA 95630
(916)-357-6607 (9:00am – 5:00pm PST)
Email info@ecostadt.com

II. HAZARD(S) IDENTIFICATION

The mixture does not meet any classification criteria according to OSHA HazCom 2012.

III. COMPOSITION /INFORMATION ON INGREDIENTS

Mixtures

Chemical Name	CAS Number	%
Neem Oil (Cold Pressed)	8002-65-1	70
Other Ingredients		30

The exact concentrations of the above listed chemicals are being withheld as a trade secret as allowed by 29 CFR 1910.1200.

IV. FIRST AID MEASURES

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.

Ingestion: Induce vomiting by gastric lavage. Call a physician.

Skin Contact: Take off contaminated clothing. Wash skin with plenty of soap and water. Call a physician for medical advice.

Eye Contact: 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.

V. FIRE FIGHTING MEASURES:

Flash Point > 216.5 °F (102.5 Deg. C)
Suitable extinguishing media Use water spray, dry chemical, CO₂, or chemical foam.

Specific fire-fighting instruction

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.

Special protective equipment and precautions for firefighters

As in any fire, wear a MSHA/NIOSH-approved or equivalent, pressure-demand, self-contained breathing apparatus and full protective gear.

Hazardous combustion Products Carbon oxides. Other irritating fumes and smokes.

VI. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures

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.

Methods and materials for containment and cleaning up

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.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

VII. HANDLING AND STORAGE:

Precautions for safe 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.

Conditions for safe storage, including any incompatibilities

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 extended 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.

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Individual protection measures, such as personal protective equipment	
Eye/face protection	Wear chemical safety goggles.
Skin protection	Wear protective gloves and clothing.
Hand protection	Wear appropriate chemical resistant gloves.
Respiratory protection	Use a NIOSH/MSHA approved respirator if there is a risk of exposure to fume at levels exceeding the exposure limits. Advice should be sought from respiratory protection specialists.
General hygiene considerations	
	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. Routinely, clean protective equipment and clothing through good hygiene practices.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical state	Liquid.
Color	Brownish green liquid
Odor	Garlic odor
Odor threshold	Unknown.
pH	6.9 @ 25 °C
Melting point/freezing point	Not available
Initial boiling point and boiling range	Not available
Flash point	>239F (Not Flammable)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.

Solubility(ies)	
Solubility (water)	Slightly soluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	19.31 cps at 20 °C
Specific gravity	0.897 g/cm ³ @ 20 °C

X. STABILITY AND REACTIVITY

Reactivity	The product is non-reactive under ordinary conditions of use, storage and transport.
Chemical stability	Stable at ordinary conditions of use and storage.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Do not use in areas without adequate ventilation.
Incompatible materials	Incompatible with acid, alkaline, and oxidizing substances
Hazardous decomposition products	Refer to hazardous combustion products in Section 5.

XI. TOXICOLOGY INFORMATION

Information on likely routes of exposure

Inhalation	Yes
Skin contact	Yes
Eye contact	Yes
Ingestion	Yes

Most important symptoms/effects, acute and delayed

Direct skin contact may cause slight irritation. Direct eye contact may cause slight, transient irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Information on toxicological effects

Skin corrosion/irritation	Slightly irritating
Serious eye damage/eye irritation	Minimally irritating
Respiratory or skin sensitization	
Respiratory sensitization	This product is not expected to cause respiratory sensitization.
Skin sensitizer	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	No components present at greater than 0.1% are considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
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Specific target organ toxicity -single exposure

Not classified.

Specific target organ toxicity -repeated exposure

Not classified as a specific target organ toxicity-repeated exposure.

Aspiration toxicity	Not expected to be hazardous by OSHA criteria.
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Chronic effects	Frequent or prolonged contact may dry the skin, leading to discomfort and dermatitis. Prolonged or repeated overexposure may cause liver and kidney effects.
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XII. ECOLOGICAL INFORMATION

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

XIII DISPOSAL CONSIDERATIONS

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be tripled rinsed according to the product label prior to being offered for recycling or disposal. Since emptied containers may retain product residue, follow label directions even after container is emptied.

XIV TRANSPORT INFORMATION

Not classified under DOT regulations.

XV. REGULATORY INFORMATION

US federal regulations	This product is not classified under OSHA Hazard Communication Standard, 29 CFR 1910.1200.
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TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not applicable.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not applicable.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - No
	Delayed Hazard - No
	Fire Hazard - No
	Pressure Hazard - No
	Reactivity Hazard - No

SARA 302 Extremely hazardous substance Not applicable.

SARA 311/312 Hazardous chemical Not applicable.

SARA 313 (TRI reporting) Not applicable.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

This material is not known to contain any chemicals listed as carcinogens or reproductive toxins.

XVI. OTHER INFORMATION

Date of issue: July 17, 2019

Version # 02

Declaration: The information in this SDS relates to this specific material: EcoWorks EC. It may not be valid for this material if used in combination with any other material or in any process.

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.

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