

SAFETY DATA SHEET

1. Identification

Product Identifier

Trade name: Neem Oil 3n1

EPA Reg. Number: 70051-13-83598

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Espoma Organic
6 Espoma Road
Millville, NJ 08332

856-825-0542 for product information

Emergency Phone Number: 1-800-634-0603

2. Hazard Identification

Hazard Classification: Not classified by OSHA

EPA Signal Word: Caution (Refer to section 15)

Hazard Statements: None

Pictogram: None

Precautionary Statements:

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.

Other Hazards:

Do not apply directly to water. Do not contaminate water when disposing of equipment wash waters or rinsate.

The product is toxic to bees exposed to direct treatment. Do not apply this product while bees are actively visiting the treatment area.

3. Composition/information on ingredients

<u>Ingredient</u>	<u>CAS #</u>	<u>% (w/w)</u>
Clarified Hydrophobic Extract of Neem Oil	947173-77-5	0.9

4. First-Aid Measures

Generic measures

Eye contact: Hold eye open and rinse slowly and gently for 15-20 minutes. Remove contacts if present after the first 5 minutes, then continue rinsing eye. Call poison control center or doctor for treatment advice.

Skin Contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice.

Inhalation: Move person to fresh air. If person is not breathing call 911 or an ambulance then give artificial respiration preferably by mouth to mouth. . Call poison control center or doctor for treatment advice.

Most important symptoms and effects, both acute and delayed: Eye irritation
Indication of any immediate medical attention and special treatment needed:
None specified.

5. Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media: Dry chemical, foam, carbon dioxide.

Special hazards arising from the substance or mixture: None known.

Advice for firefighters

Protective equipment: None specified..

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: None specified.

For emergency responders: None specified.

Environmental precautions: Avoid run off to waterways and sewers

Methods and material for containment and cleaning up:

Methods for containment: Do not use in a manner that would not allow drift or rinse water from equipment cleaning to contaminate water sources or supplies.

Methods for clean-up: Control spills using absorbent material and prevent from contaminating water sources.

Other Information:

See section 8 for occupational exposure limits and risk management measures. Refer to section 13 for disposal considerations.

7. Handling and Storage

Precautions for safe handling:

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.

Conditions for safe storage, including any incompatibilities

Keep in original container. Store away from direct sunlight, feed or foodstuffs. Keep containers tightly sealed when not in use. Keep from freezing

Specific end use(s): Use as specified on label.

8. Exposure Controls/Personal Protection

Control Parameters

OSHA Permissible Exposure Limits: Not determined.

ACGIH Threshold Limit Value: Not determined.

Other Exposure Limits: Not determined.

Exposure controls

Personal Protective Equipment: None specified.

Thermal Hazards: None known.

General Industrial Hygiene Considerations:

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.

Environmental Exposure Controls:

Do not apply directly to water. Do not contaminate water when disposing of equipment wash waters or rinsate.

The product is toxic to bees exposed to direct treatment. Do not apply this product while bees are actively visiting the treatment area.

9. Physical and Chemical Properties

Appearance: Milky white liquid.

Odor: Sour garlic.

Odor Threshold: Not determined.

pH: 6.5-7.1

Melting Point / Freezing Point: 0⁰ C

Boiling Point: 100⁰ C

Flash Point: Not flammable

Evaporation Rate: Not determined.

Flammability (solid / gas): Not determined

Lower & Upper Flammability Limits: Not determined

Vapor Pressure: Not determined.

Volatility by Weight: Not determined.

Density 0.943-1.04 g/mL

Solubility: 99%

Partition Coefficient: Not determined.

(n-octanol/water)

Auto-ignition Temperature: Not determined.

Decomposition Temperature: 1.001 cP

Explosive Properties: Not explosive.

Oxidising Properties; Not oxidising.

10. Stability and Reactivity

Reactivity: None know.

Chemical Stability: Stable if stored according to label.

Possibility of Hazardous Reactions: None.

Conditions to avoid: Do not freeze

Incompatible Materials: None known

Hazardous Decomposition Products: None known

11. Toxicological Information

Information on toxicological effects

Acute toxicity:

LD₅₀ (oral): 5000 mg/kg (Study conducted with product containing 90%AI)

LD₅₀ (dermal): >2000 mg/kg (study conducted with AI)

LD₅₀ (inhalation): >6.17 +/- 1.23 mg/L (Study conducted with product containing 90%AI)

Skin corrosion / irritation: Slightly irritating. Toxicity category IV (Study conducted with product containing 90%AI)

Eye irritation: Mildly irritating. Toxicity category III (Study conducted with product containing 90%AI)

Respiratory or skin sensitization: Mildly sensitizing. (Study conducted with product containing 90%AI).

Carcinogenicity:**NTP Listed:** Not applicable.**IARC:** Not applicable.**OSHA:** Not applicable.**12. Ecological Information****Toxicity:**

Test species	Test method	Test substance	LC ₅₀
Bobwhite Quail	14-day acute oral	Active Ingredient	LD ₅₀ > 2,150 mg a.i./kg body weight
<i>Pimephales promelas</i> (Fathead Minnow)	96-hour	Active Ingredient	NOEC 96-hour: 2,000 mg/L
<i>Daphnia magna</i>	48-hour	Active Ingredient	NOEC 48-hour: 2,000 mg/L
<i>Apis mellifera</i> L	This product is highly toxic to bees exposed to direct treatment. Do not apply when bees are actively visiting the treatment area.		

Persistence and Degradability: Neem oil degrades rapidly and does not persist in the environment.

Bioaccumulative potential: Neem Oil is not intended for use in aquatic environments. Appropriate cautions are required for use around bodies of water.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

13. Disposal Considerations**Waste Treatment Methods**

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.

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.

14. Transport Information

Not regulated.

15. Regulatory Information

Safety, Health, and Environmental Regulations/Legislation Specific for the Substance or Mixture

OSHA: N/A

TSCA Status: Exempt.

CERCLA Reportable Quantity: N/A

SARA: N/A

RCRA Status: N/A

16. Other Information

Last Revision Date: March 3, 2017

Disclaimer/Statement of Liability: The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

