



TRIPLE ACTION NEEM OIL

Safety Data Sheet

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: Triple Action Neem Oil
EPA registration No. 70051-2-829
Product Type: Emulsifiable Concentrate
Active Ingredient: Clarified Hydrophobic Extract of Neem Oil
CAS No.: 947173-77-5

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Insecticide, Miticide and Fungicide
Uses advised against: All uses not listed on the label

1.3. Details of the supplier of the safety data sheet

Name: Southern Agricultural Insecticides, Inc.
Address: P.O. Box 218, Palmetto, FL 34220
Phone Number: (941) 722-3285
Website: <http://www.southernag.com>

1.4. Emergency telephone number

Emergency number: (941) 722-3285 Chemtrec (800) 424-9300 (24 hour transportation spill response)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Hazard Classification: Not classified as hazardous by OSHA
Hazard Statements: None
Pictogram: None
Precautionary Statements: Harmful if absorbed through the skin. Causes moderate eye irritation. 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.

2.2 Other Hazards:

Do not use or store near heat or flame.

SECTION 3: Composition/information on ingredients

3.1 Substance

Ingredient	CAS#	% by weight
Clarified Hydrophobic Extract of Neem oil	947173-77-5	70

SECTION 4: First aid measures

4.1. Description of first aid measures

Generic measures	Call poison control center or doctor for treatment advice. Have the product container or label with you when you calling the poison control center or doctor or going for treatment.
Eye Contact:	Hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lenses after 5 minutes if present and continue rinsing eye.
Skin Contact:	Remove contaminated clothing and wash with plenty of water for 15-20 minutes.
Inhalation:	Call poison control center or doctor for treatment advice.
Ingestion:	Call poison control center or doctor for treatment advice.

4.2. Most important symptoms and effects, both acute and delayed

Eye and skin irritation

4.3. Indication of any immediate medical attention and special treatment needed

None known

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media:	Dry chemical, foam, carbon dioxide
Unsuitable Extinguishing Media:	water

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:	None known
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5.3. Advice for firefighters

Protection of Firefighters:	Not determined
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:	Same as applicators and handlers* see section 8
For emergency responders:	Same as applicators and handlers* see section 8

6.2. Environmental precautions

This product is hazardous to fish and aquatic vertebrates. For terrestrial uses: Do not apply directly to water or to areas where surface water is present, or to intertidal areas below the mean high water mark.

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

6.3. Methods and material for containment and cleaning up

Methods for Containment:	Do not use in a manner that would allow drift or rinse water from equipment cleaning to contaminate water sources or supplies.
Methods for Clean-Up:	None specified
Other Information:	None

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

The following equipment should be worn by handlers, applicators Long sleeved shirt, long pants, chemical resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, or poly vinyl chloride) shoes plus socks Follow manufactures instructions for cleaning and maintaining PPE. If no such instructions for washables use detergent and hot water. Keep and wash PPE separately from other laundry

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container. Store in a dry place, away from direct sunlight, feed, or foodstuffs. Keep container tightly sealed when not in use. Do not store below 40°F (4°C).

7.3. Specific end use(s)

Use only as specified on label.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OSHA Permissible Exposure Limits (PELs): Not determined

ACGIH Threshold Limit Values: Not determined

Other Exposure Limits: Not determined

8.2. Exposure controls

Engineering Controls: None specified

Personal Protective Equipment

Eye/Face Protection: Not specified

Skin Protection

Long pants, long sleeved shirt socks and shoes chemical resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, or poly vinyl chloride)

Hand Protection:

Body Protection: Coveralls

Respiratory Protection: None specified

Thermal Hazards: None specified

General Hygiene Considerations: 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.

Environmental exposure controls: For terrestrial use only: Do not apply directly to water or to areas where surface water is present, or to intertidal areas below the mean high water mark. This product is toxic to bees exposed to direct treatment. Do not apply this product while bees are actively visiting the treatment area.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Brown liquid
Odour:	Citrus/garlic
Odour Threshold:	Not determined
pH: 1 dilution	4.5-6.5
Melting Point / Freezing Point:	37°F (3°C)
Initial Boiling Point:	>275°F
Boiling Range:	Not determined
Flash Point:	140°F (60°C)
Evaporation Rate:	Not determined
Flammability (solid, gas):	Not applicable
Lower & Upper Flammability	Not applicable

Limits:

Vapour Pressure:	Not determined
Volatility by weight:	25%
Density:	0.86-0.95 g/ml
Solubility:	Not determined
Partition Coefficient (n-octanol/water):	Not determined
Auto-ignition Temperature:	Not determined
Decomposition Temperature:	Not determined
Viscosity:	Not determined
Explosive Properties:	None known
Oxidizing Properties:	None known

9.2. Other information

Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity	None known
10.2. Chemical stability	Stable
10.3. Possibility of hazardous reactions	None known
10.4. Conditions to avoid	Low temperatures
10.5. Incompatible materials	None known
10.6. Hazardous decomposition products	None known

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute Toxicity

Toxicological information on the substance or mixture:

LD50 (oral)	> 5000 mg/kg (test with similar product containing higher concentration of the same active ingredient)
LD50 (dermal)	> 2000 mg/kg (test with similar product containing higher concentration of the same active ingredient)
LC50(inhalation)	> 6.17 ± 1.23 mg/L (test with similar product containing higher concentration of the same active ingredient)

Skin corrosion/irritation: Slightly irritating, Toxicity Category IV (test with similar product containing higher concentration of the same active ingredient)

Eye irritation: Minimally irritating, Toxicity Category III (test with similar product containing higher concentration of the same active ingredient)

Respiratory or skin sensitization: Mildly sensitizing (test with similar product containing high concentration of the same AI)

Other information on adverse health effects:

Carcinogenicity

NTP Listed: Not applicable

IARC Listed: Not applicable

OSHA: Not applicable

11.2 Reference to other sections

See Section 4 for symptoms and acute and delayed effects.

SECTION 12: Ecological information

12.1. Toxicity

Test species	Test method	Test substance	LC50
Bobwhite Quail	14-day acute oral	Active Ingredient	LD50> 2,150 mg a.i./kg body weight
Pimephales promelas (Fathead Minnow)	96-hour	Active Ingredient	NOEC 96-hour: 2,000 mg/L
Daphnia magna	48-hour	Active Ingredient	NOEC 48-hour: 2,000 mg/L
Apis mellifera L	This product is highly toxic to bees exposed to direct treatment. Do not apply when bees are actively visiting the treatment area.		

12.2. Persistence and degradability Neem oil degrades rapidly and does not persist in the environment.

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

12.4. Mobility in soil No data available.

12.5. Other adverse effects No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal Instructions: Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Keep in original container. Store in a dry place, away from direct sunlight, or foodstuffs. Keep container tightly sealed when not in use. Do not store below 40°F (4°C).

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on-site or at an approved waste disposal facility.

Container Handling: Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as following: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds.

Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

SECTION 14: Transportation information

- 14.1. UN number Not regulated.
- 14.2. UN proper shipping name Not regulated.
- 14.3. Transport hazard class(es) Not regulated.
- 14.4. Packing group Not regulated.
- 14.5. Environmental hazards Not regulated.
- 14.6. Special precautions for user Not regulated.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EPA: This product 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-pesticidal chemicals, The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION, KEEP OUT OF REACH OF CHILDREN

Harmful if absorbed through the skin. Causes moderate eye irritation.

This product is hazardous to fish and aquatic invertebrates.

This product is highly toxic to bees exposed to direct treatment.

- OSHA: N/A
- TSCA Status: Exempt
- CERCLA Reportable Quantity: N/A
- SARA Title III: N/A
- Section 302: N/A
- Section 311/312: N/A
- Section 313: N/A
- RCRA Status: N/A

SECTION 16: Other information

Disclaimer:

To the best of our knowledge, the information contained herein is accurate. However, Southern Agricultural Insecticides, Inc. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All material may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.