



VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet Natural Guard Brand By Ferti-lome Neem

SECTION 1: Identification

Product identifier

Product name Natural Guard Brand By Ferti-lome Neem

Other means of identification

EPA Reg. No. 70051-2-7401

Recommended use of the chemical and restrictions on use

Insecticide, Miticide and Fungicide.

Supplier's details

Name Voluntary Purchasing Groups, Inc.
Address 230 FM 87
Bonham, TX 75418
USA

Telephone 855-270-4776

Emergency phone number(s)

In the event of a medical or chemical emergency contact ChemTel, Inc.
North American 1-800-255-3924 or worldwide Intl. + 01-813-248-0585

SECTION 2: Hazard identification

Classification of the substance or mixture

GHS classification in accordance with OSHA (29 CFR 1910.1200)

Not a hazardous substance or mixture.

GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

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Not a hazardous substance or mixture.

SECTION 3: Composition/information on ingredients

Substances

Hazardous components

1. Clarified Hydrophobic Extract of Neem Oil

Concentration	70 % (Weight)
CAS no.	947173-77-5

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice	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.
If inhaled	Call poison control center or doctor for treatment advice.
In case of skin contact	Remove contaminated clothing and wash with plenty of water for 15-20 minutes.
In case of 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.
If swallowed	Call poison control center or doctor for treatment advice.

Most important symptoms/effects, acute and delayed

Eye and skin irritation

Indication of immediate medical attention and special treatment needed, if necessary

None known

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Dry chemical, foam, carbon dioxide

Specific hazards arising from the chemical

No data available.

Special protective actions for fire-fighters

No data available.

Further information

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No data available.

SECTION 6: Accidental release measures

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

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.

Methods and materials for containment and cleaning up

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

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

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

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).

Specific end use(s)

Use only as specified on label.

SECTION 8: Exposure controls/personal protection

Control parameters

1. Clarified Hydrophobic Extract of Neem Oil (CAS: 947173-77-5)

PEL-C: Not Determined (OSHA)

Appropriate engineering controls

None specified

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Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Not specified

Skin protection

Long pants, long sleeved shirt socks and shoes

Body protection

Coveralls

Respiratory protection

None specified

Thermal hazards

None specified

Environmental exposure controls

For terrestrial use only: Do not apply directly to water or to areas where surface water is present, or to inter tidal 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

Information on basic physical and chemical properties

Appearance/form	Brown Liquid
Odor	Citrus/Garlic
Odor threshold	No data available.
pH	4.5-6.5
Melting point/freezing point	37°F (3°C)
Initial boiling point and boiling range	>275°F
Flash point	140°F (60°C)
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability limits	No data available.
Upper/lower explosive limits	No data available.
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	0.86-0.95 g/ml
Solubility(ies)	No data available.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

Other safety information

No data available.

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SECTION 10: Stability and reactivity

Reactivity

None known

Chemical stability

Stable

Possibility of hazardous reactions

None known

Conditions to avoid

Low Temperatures

Incompatible materials

None known

Hazardous decomposition products

None known

SECTION 11: Toxicological information

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)

Serious eye damage/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)

Germ cell mutagenicity

No data available.

Carcinogenicity

NTP Listed: Not applicable

IARC Listed: Not applicable

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OSHA: Not applicable

Reproductive toxicity

No data available.

Summary of evaluation of the CMR properties

No data available.

STOT-single exposure

No data available.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

Additional information

See Section 4 for symptoms and acute and delayed effects.

SECTION 12: Ecological information

Toxicity

Clarified Hydrophobic Extract of Neem Oil

LD50 Oral - Bobwhite Quail - 14-day

Result: LD50 > 2,150 mg a.i./kg body weight

Clarified Hydrophobic Extract of Neem Oil

NOEC - Pimephales promelas (fathead minnow) - 96-hour

Result: NOEC 96-hour: 2,000 mg/L

Clarified Hydrophobic Extract of Neem Oil

NOEC - Daphnia magna (water flea) - 48-hour

Result: NOEC 48-hour: 2,000 mg/L

Clarified Hydrophobic Extract of Neem Oil

- 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.

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.

Results of PBT and vPvB assessment

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No data available.

Other adverse effects

No data available.

SECTION 13: Disposal considerations

Disposal of the product

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

Disposal of contaminated packaging

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.

Other disposal recommendations

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

SECTION 14: Transport information

DOT (US)

UN Number: Not regulated.

Class: Not regulated.

Packing Group: Not regulated.

Proper Shipping Name: Not regulated.

Reportable quantity (RQ): Not regulated.

Marine pollutant: Not regulated.

Poison inhalation hazard: Not regulated.

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

OSHA

N/A

Toxic Substances Control Act (TSCA) Inventory

Exempt

SARA 302 Components

N/A

SARA 311/312 Hazards

N/A

SARA 313 Components

N/A

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RCRA Status
N/A

Chemical Safety Assessment
No data available.

SECTION 16: Other information

Disclaimer:

To the best of our knowledge, the information contained herein is accurate. However, neither Voluntary Purchasing Groups, Inc. nor any of its subsidiaries 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.