



Woodstream Corporation
69 North Locust Street
Lititz, PA 17543

Material Safety Data Sheet

MSDS No: 291
Domestic Emergency Phone 800-424-9300
International Emergency Phone 703- 527-3887
Information Phone 800-800-1819
Intl Info Phone: 717-626-2125

SECTION I: MATERIAL IDENTIFICATION

Product Number/Size: 5612 16 Ounce (fluid)
Trade Name: Bioneem 16 oz
Also Known As: Bioneem
Description: Neem Oil Insecticide
Chemical Composition: Liquid
Regulatory Licenses: EPA Reg. No. 70051-6-42697

SECTION II: INGREDIENTS

| Hazardous Ingredient (s)* | % BY WT | CAS # | OSHA/TWA | PEL/STEL | ACGIH/TWA | TLV/STEL |
|---------------------------|---------|------------|------------|----------|------------|-----------|
| Azadirachtin | 0.09 | 11141-17-6 | NE | NE | NE | NE |
| Ethyl alcohol | < 95.0 | 64-17-5 | 1900 mg/m3 | NE | 1880 mg/m3 | NE |
| Methyl alcohol | < 5.0 | 67-56-1 | 260 mg/m3 | NE | 262 mg/m3 | 328 mg/m3 |

* all ingredients in quantities > 1.0% (0.1% for carcinogens or teratogens) that are potentially hazardous per OSHA definitions.

SECTION III: PHYSICAL DATA

Boiling Point: 173° F
Vapor Pressure (mm Hg): Not Determined
Vapor Density (AIR=1): Heavier than Air
Bulk Density: Not Available
Freezing Point: Not Available
Solubility in Water: Emulsifiable
Appearance: Brown to Amber Liquid

Viscosity: Not Available
Odor: Fragrant
Specific Gravity (Water=1): 0.85
Percent, Volatile by Volume %: Not Available
Evaporation Rate (Xylene=1): Not Available
Physical State: Liquid
pH: 4.44

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

Flash Point (method): 55.6° F
Autoignition Temp.: Not Available
Flammable Lel: Not Available
Flammable Uel: Not Available
Hazardous Products of Combustion: Carbon and Nitrogen Oxides

NFPA Health Rating: 2
NFPA Fire Rating: 4
NFPA Reactivity Rating: 0
Extinguishing Material: CO2, Dry Chemical, Alcohol or Polymer Foam

SECTION V: HEALTH HAZARD DATA

General Statement: Material is considered hazardous per 29 CFR 1910.1200. Avoid contact with skin, eyes and clothing.
Occupational Exposure Limit: See Section II
Effects of Over Exposure: None Expected
Carcinogenicity: None listed per OSHA, NTP, or IARC.
Chronic Effects: None Expected
Rec. Exp. Limits: See Section II
Potential Health Effects: None Expected
Acute Oral: >5000 mg/kg
Acute Dermal: >2000 mg/kg
Acute Inhalation: > 5 kg/l
Eye Irritation: Slight Irritation
Skin Irritation: Slight Irritation
Sensitization: Not a sensitizer

| Route of Entry | Symptoms/Effects of Overexposure | First Aid |
|-----------------------|---|--|
| Ingestion | None Expected | If swallowed, promptly drink large amounts of water. Never give liquids to an unconscious person. Get medical attention. |
| Skin | None Expected | Wash with plenty of soap and water. Get medical attention. |
| Inhalation | None Expected | Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention. |
| Eye | None Expected | Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention. |

SECTION VI: REACTIVITY DATA

Stability: Stable

Conditions to avoid: Heat and Open Flame

Materials to avoid: Avoid acids, acid chlorides, oxidizing agents, reducing metals, alkali metals

Hazardous Decomposition: Will Not Occur

Conditions to avoid: None Known

Hazardous Polymerization: Will Not Occur

Conditions to avoid: None Known

SECTION VII: SPILL OR LEAK PROCEDURES

Steps to be taken if material is released or spilled: Rinse with abundant water and mop up.

Waste Disposal Method: Be aware that the waste owner has responsibility for final disposal. Regulations may also apply to empty containers, liners or rinsate. Laws may change or be reinterpreted; state and local regulations may be different from federal regulations. This information applies to materials as manufactured; contamination or processing may change waste characteristics and requirements.

Product Disposal Method: If Empty: Do not reuse this container. Place in trash or offer for recycling if available.
If Partly Filled: Call your local solid waste agency or (800)-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

SECTION VIII: SPECIAL PROTECTION INFORMATION

Respiratory Protection: In typical applications no engineering controls should be needed; if industrial hygiene surveys show that occupational exposure limits may be exceeded, use NIOSH approved respirator with organic vapor/dust/mist cartridges

Protective Gloves: Protective gloves (nitrile) recommended

Eye Protection: Recommended to avoid contact of material directly into eyes

Protective Clothing: Standard body covering

Ventilation: Standard Mechanical in closed areas

Other Protective Equipment: None Required

Protection Note: Personal protection information provided in this Section is based upon general information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.

SECTION IX: SPECIAL PRECAUTIONS

Storage and Handling: Store out of reach of children. Do not contaminate water, food or feed by storage or disposal. Do not reuse container.

Other Precautions: Keep in original container, tightly sealed when not in use. Store in a cool, dry place, away from direct sunlight. Store between 50 - 95°F.

Precaution Note: None

SECTION X: ECOLOGICAL INFORMATION

Ecotoxicity: May be hazardous to aquatic invertebrates. Do not apply directly to water; do not contaminate water by cleaning of equipment or disposal of washwaters.

Environmental Fate: Degrades Rapidly

SECTION XI: TRANSPORTATION INFORMATION**DOT HAZARD DESCRIPTION**

Proper Shipping Name: Consumer Commodity
Identification Number: N/A
Hazard Class/Division: ORM-D
Packaging Group: N/A
Packaging Instructions: N/A
Special Instructions: N/A
Placard: N/A
Emergency Response Guide#: N/A
US Surface Freight Class: See NMFTA Manual

IATA CLASSIFICATION

Proper Shipping Name: Consumer Commodity
Identification Number: N/A
Hazard Class/Division: ORM-D
Packaging Group: N/A
IATA Bulk Packaging Inst: N/A
IATA Shipping Notes: N/A

IMO CLASSIFICATION

Proper Shipping Name: Consumer Commodity
Identification Number: N/A
Hazard Class/Division: ORM-D
Packaging Group: N/A
IMO Shipping Notes: N/A
IMO Bulk Packaging Inst: N/A
IMO Stowage Category: N/A

SECTION XII: REGULATORY INFORMATION

SARA Title III: Not Regulated
SARA Product Classification: Reporting not required unless TPQ exceeded in inventory
Acute: N/A
Chronic: N/A
Fire: N/A
Reactivity: N/A
Pressure Generating: Not Pressure Generating
311/312 Hazard Categories: Not Subject
313 Reportable Ingredients: Not Subject
TSCA Regulatory: Not Regulated
State Regulations: States such as Pennsylvania, New Jersey, California, Vermont, Massachusetts and Rhode Island may all have components of this product listed; consult specific state regulatory requirements for additional information.
Proposition 65 Statement: None Listed

SECTION XIII: OTHER INFORMATION

Memo: While this information and recommendations set forth are believed to be accurate as of the date hereof, Woodstream Corp. makes no warranty with respect hereto and disclaims all liability from reliance thereon.

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