

## Safety Data Sheet

Revision Date: 03/01/2017

### 1. Product and Company Identification

#### Product Identifier

Product Name: Nighty Night  
General Use: Bed Bug Spray / Pesticide

#### Recommended/Restricted Use

Identified Uses: A ready for use pesticide for effectively killing bed bugs, larva, and eggs that is derived from natural sources.  
Restrictions: None known.

#### Distributor

Misco Industrial, LLC  
109 Space Park N  
Goodlettsville, TN 37072  
(615) 334-1861

#### Emergency Contact Information

Phone Number: (800) 255-3924  
Company Name: ChemTel

### 2. Hazard Identification

#### GHS Classification:

Eye damage / irritation Category 2B  
Sensitization - skin Category 1

#### GHS Label Elements, Including Precautionary Statements

##### Pictogram:



Signal Word: Warning

##### Hazard Statement(s):

H317 May cause an allergic skin reaction  
H320 Causes eye irritation

#### Precautionary Statements:

##### Prevention:

P261 Avoid breathing fume / gas / mist / vapors / spray.  
P264 Wash face, hands and any exposed skin thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves / protective clothing / eye protection / face protection when using this product.

**Response:**

## Eyes:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice / attention.

## Skin:

P302 + P352 IF ON SKIN: Wash with plenty of water / soap.

P333 + P313 If skin irritation or a rash occurs: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash before reuse.

**Disposal:**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**HMIS Classification:**

Health Hazard: 1

Flammability: 0

Physical Hazards: 0

Personal Protection: B

**NFPA Rating:**

Health Hazard: 1

Fire: 0

Reactivity Hazard: 0



Use Personal Protection from Chemical and Physical Hazards.

**Other Hazards:**

Keep this product out of the reach of children.

Store this product closed, in a shaded and ventilated area, and away from incompatible materials.

**3. Composition/Information on Ingredients**

| Chemical Name  | Weight % | CAS Number |
|--|----------|------------|
| Geraniol*  | 1.0      | 106-24-1   |
| Other components**   | ---      | ---        |
| <p>*This product contains a component which contains in excess of 0.1% natural allergen or sensitizer. Some individuals who have been previously exposed and sensitized to the allergen may exhibit allergic reactions or other related illnesses when re-exposed.<br/> **This compound is a trade secret in accordance with provision 1910.1200 of the title of US Code Federal Regulations. The exact composition of this formulation has been withheld as a trade secret.</p> |          |            |

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## 4. First Aid Measures

### Description of First Aid Measures

- General:** Show this safety data sheet to the doctor or medical contact in attendance. Immediate medical attention is required, particularly in the case of eye contact.
- Inhalation:** If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If symptoms develop, persist or worsen, call a physician or obtain medical attention.
- Skin Contact:** Wash hands or exposed skin with plenty of soap and water. Remove any contaminated clothing, do not remove clothing from the workplace, and wash clothing before reuse. If skin irritation, rash, eczema, or allergic reaction occurs seek medical advice and/or treatment.
- Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present, and continue rinsing with eyes wide open for at least 15 minutes. Do not rub affected eyes, repeat rinsing if necessary. If eye irritation persists: Get medical advice / attention.
- Ingestion:** Rinse mouth with water if conscious, alert, and not convulsing. DO NOT induce vomiting. Give several glasses of water to drink. Contact a POISON CENTER / hospital / physician immediately for medical advice or treatment if you do not feel well.

### Most Important Symptoms/Effects

- Inhalation** This product may cause irritation to the nose, throat, and/or respiratory tract resulting in a burning nostril or mucous membrane sensation.
- Skin Contact** It is unlikely that skin irritation will occur with proper use of this product. If skin sensitization should occur resulting in an irritating, itching or burning sensation; redness; and/or pain; a rash; or dermatitis may occur as a result of an allergic skin reaction.
- Eye Contact** Eye irritation. May include stinging, tearing, itching, redness, swelling, and/or blurred vision.
- Ingestion** May cause stomach distress resulting in nausea, vomiting, difficulty swallowing. A fragrant geraniol smell to breath.

### Indication of Immediate Medical Attention or Special Treatment Needed:

If the above first aid measures are not successful, if eye irritation persists, breathing becomes difficult, or if feeling generally unwell, seek medical advice / attention. Keep victim under observation as symptoms may be delayed.

### Note to Physician:

Treat symptomatically provide supportive measures and treat symptomatically, based on judgement of attending physician. Keep victim under observation for possible delayed effects.

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## 5. Firefighting Measures

**Suitable Extinguishing Media:** Non-flammable; choose media to support surrounding fire.

|   |  |
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| <b>Unsuitable Extinguishing Media:</b>              | None.  |
| <b>Specific Hazards Arising from the Chemical:</b>  | Combustion Products: VOCs, carbon dioxide, and carbon monoxide may form.   |
| <b>Special Protective Actions for Firefighters:</b> | Wear full protective gear clothing including a self-contained, positive pressure, breathing apparatus (SCBA) approved by NIOSH in cases of fire.   |
| <b>Firefighting Instructions:</b>                   | Use standard firefighting procedures and consider the hazards of other involved materials. Keep containers cooled by using water spray until containers can be moved from the fire area if you can do so without risk. |
| <b>Explosion data:</b>                              |  |
| <b>Sensitivity to Mechanical Impact:</b>            | No   |
| <b>Sensitivity to Static Discharge:</b>             | No   |

## 6. Accidental Release Measures (Large bulk releases):

### Personal Precautions, Protective Equipment and Emergency Procedures:

Keep unnecessary personnel away from and upwind from any leak or spillage. Provide good ventilation to area. Wear chemical resistant gloves and personal protective equipment (including protective goggles or wrap around face shield) as required when handling or cleaning up this product. Avoid breathing mist or vapor. Evacuate personnel to safe areas. Wear appropriate protective clothing during clean-up operations. Local authorities should be advised if significant spillages cannot be contained. Avoid contact with skin, eyes, or clothing. Irrigate eyes, wash hands / skin immediately and/or change clothes as needed if any signs of exposure appear (i.e., itching, burning sensations). Launder clothing before reuse. Do not remove clothing from workplace.

### Environmental Precautions:

Avoid discharge into lakes, streams, ponds, drains, sanitary sewers, runoff waters, public waters, or public water systems.

### Methods and Materials for Containment and Cleaning Up:

Before attempting to clean up large spills, refer to hazard data given on this SDS. Prevent further leakage or spillage if safe to do so. Contain any large amount of bulk spillage with dikes to prevent any migration or entry into sewers or streams. Cover spillage with plastic to prevent spreading or migration in soil. Clean up any spill immediately with an absorbant material such as vermiculite, sand, or earth. Sweep into appropriate solids disposal container without creating a dust. Pick up and transfer absorbed spillage or leakage to properly labeled waste container if safe to do so. Dispose in accordance with local / regional / state / national / international waste regulations. Mop area with water. Prevent large spills from entering drains, sewers, or waterways. Contact emergency services and supplier for advice as needed. For small spills: wipe up with absorbant material (such as a towel) and clean surface to remove residual contamination. Never return spilled material to original container for reuse. See section 13 of this SDS for waste disposal requirements.

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## 7. Handling and Storage:

### Precautions for Safe Handling

When handling this product use good industrial hygiene practices; provide good general ventilation through using fans or air-conditioning system, wear chemical resistant gloves when handling, do not eat, drink, or smoke while handling this product. Do not get this material in eyes. Do not breath mists or vapors. Do not get this material on skin or clothing. Use personal protective equipment. Wash hands/skin often while and after handling this product and before any breaks or meals. Avoid release into the environment. In rare instances individuals may become sensitized to this product, these individuals should increase ventilation (or use an approved NIOSH respirator) when handling this product.

### Conditions for Safe Storage, Including any Incompatibilities

Store sealed container or product packaging in a shaded and ventillated place and away from incompatable materials (such as is noted in Section 10 of this SDS). Avoid abnormally high temperatures.

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## 8. Exposure Controls/Personal Protection

### Occupational Exposure Limits:

No exposure limits noted for ingredients.

### Biological Exposure Limits:

No biological exposure limits noted for ingredients.

### Engineering Controls

Use of this product in a normally veltillated area (typically 10 air exchanges per hour) is typically adequate, unless individual is sensitized. Provide easy access to water supply and eye wash facilities.

### Individual Protection Measures

|                         |  |
|-------------------------|--|
| Eye/Face Protection:    | Wear safety goggles (or safety glasses with side shields and a face shield) when using this product. Wash hands using soap and water often and before touching eye or face area or before eating, drinking, or smoking. A safety eye-wash station should be located conveniently and appropriately in area to rinse out eyes if needed for emergencies.              |
| Skin Protection:        | Use impervious nitrile or chemical resistant gloves and appropriate chemical resistant protective clothing if handling this product directly. If exposure to skin or hands occurs, wash exposed area using soap and water immediately. A safety shower should be located conveniently and appropriately in area and used to rinse off skin if needed in emergencies. |
| Respiratory Protection: | Respiratory protection is not normally required in this formulation, but if in rare instances where exposure limits are exceeded (due to no fans or air-conditioning systems) or irritation is experienced by a sensitized individual through exposure to vapors of this product, use an approved positive pressure NIOSH respirator.                                |

General:

Handle this product in accordance with good industrial hygiene and safety practices. Do not eat, drink, or smoke while using this product. Always wash hands with soap and water often; immediately after using this product; and before eating, drinking, or smoking. Avoid contact with skin, eyes, or clothing. Always wear suitable gloves and eye / face protection when using this product. Routinely wash work clothing and protective equipment to remove contaminants. Do not allow contaminated work clothing outside the workplace.

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## 9. Physical and Chemical Properties:

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|---|--|
| <b>Physical State:</b>                          | Liquid   |
| <b>Color:</b>                                   | colorless, clear   |
| <b>Odor:</b>                                    | Natural geraniol fragrance                                 |
| <b>Odor Threshold:</b>                          | N/D**  |
| <b>pH:</b>                                      | 6.0 - 8.0  |
| <b>Specific Gravity:</b>                        | 0.9 - 1.0  |
| <b>Melting Point/Freezing Point:</b>            | N/D  |
| <b>Initial Boiling Point:</b>                   | Estimated at 100°C   |
| <b>Flash Point:</b>                             | approximately 212°F (100°C) Closed Cup (Based on Geraniol) |
| <b>Evaporation Rate:</b>                        | N/D  |
| <b>Flammability (solid/gas):</b>                | Does not sustain combustion. Non-Flammable.                |
| <b>Upper/Lower Explosive Limits:</b>            | N/D  |
| <b>Vapor Pressure:</b>                          | N/D  |
| <b>Vapor Density (Air=1):</b>                   | N/D  |
| <b>Relative Density (20°C):</b>                 | N/D  |
| <b>Solubility:</b>                              | Water soluble  |
| <b>Partition Coefficient (n-octanol/water):</b> | N/D  |
| <b>Auto-Ignition Temperature:</b>               | N/D  |
| <b>Decomposition Temperature:</b>               | N/D  |
| <b>Viscosity:</b>                               | N/D  |

\*\*N/A: Not Available, N/D: Not Determined

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## 10. Stability and Reactivity

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|--|--|
| <b>Reactivity:</b>                         | This product is stable and non-reactive under normal conditions of use, storage, and transport.  |
| <b>Chemical Stability:</b>                 | Stable when stored in sealed container or packaging at normal temperatures and in a suitable location under normal storage conditions. |
| <b>Possibility of Hazardous Reactions:</b> | Hazardous polymerization or dangerous reactions will not occur under conditions of normal use.   |
| <b>Conditions to Avoid:</b>                | Avoid contact with incompatible materials.   |

**Incompatible Materials:** Strong oxidizing agents, strong acids.  
**Hazardous Decomposition Products:** Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), and other organic vapors (VOC's).

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**11. Toxicological Information**

**Likely Routes of Exposure:** Skin, ingestion, inhalation, and eyes.

**Symptoms related to physical, chemical, and toxicological characteristics:** Causes eye irritation. May cause an allergic skin reaction. No adverse effects due to inhalation are expected. The ingestion of this product is unlikely to be a hazard as it is not expected to be acutely toxic.

**Delayed or Immediate exposure effects:** Eye irritation. Symptoms may include stinging tearing, redness, swelling, and blurred vision. . May cause an allergic skin reaction, itching, redness, pain, or dermatitis.

**Chronic effects from short- and long-term exposure:** Skin itching, redness, pain, and/or dermatitis may result from allergic skin reaction.

**Numerical measures/estimates of toxicity (This value is calculated based on chapter 3.1 of the GHS standard):** ATEmix (oral) = >>3600 mg / kg (based on 1% geraniol (CAS # 106-24-1), mixture).

**Target Organ Effects:** Irritation to the eyes. Skin itching, redness, pain, rashes, and possible dermatitis due to allergic skin reaction.

**Listed in the latest edition of the National Toxicology Program (NTP) Report on Carcinogens:** This product contains no known ingredient listed as a carcinogen.

**Listed as a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs:** This product contains no known ingredient listed as a carcinogen.

**Listed as a potential carcinogen by the American Conference of Governmental Industrial Hygienists (ACGIH):** This product contains no known ingredient listed as a carcinogen.

**Listed as a potential carcinogen by OSHA:** This product contains no known ingredient listed as a carcinogen.

**Reproductive Toxicity:** This product contains no known or suspected reproductive toxins or germ cell mutagens, or genotoxic components at greater than 0.1%. This product is not expected to cause reproductive or developmental effects.

**Aspiration hazard:** Not classified (based on geraniol, CAS # 106-24-1).

**Individual Hazardous Component Toxicological Data:**

**Geraniol (CAS # 106-24-1)**

|                                       |                           |
|---------------------------------------|---------------------------|
| Acute Dermal Toxicity, LD50 (Rabbit): | > 5000 mg/kg BW.          |
| Acute Respiratory Irritation:         | No information available. |
| Acute Inhalation Toxicity, Mist LC50: | No information available. |

|  |  |
|--|--|
| Acute Toxicity LD <sub>50</sub> , (oral, rat): | 3600 mg/kg   |
| Acute Irritation:                              |  |
| Eye irritation:                                | Causes irritation and serious damage to eyes at high concentrations.               |
| Skin irritation:                               | Infrequently mildly irritating to skin of some individuals, known skin sensitizer. |
| Chronic Toxicity:                              | No signs of repeated oral, inhalation, or dermal exposure toxicity noted.          |
| Reproductive Toxicity                          | No effects have been observed.   |

## 12. Ecological Information

### Ecotoxicity:

The environmental impact of this product has not been fully investigated. However component information is listed below.

#### Geraniol (CAS # 106-24-1):

|                            |                          |                              |           |
|----------------------------|--------------------------|------------------------------|-----------|
| Ecotoxicity:               | Harmful to aquatic life. |                              |           |
| Aquatic Effects (Acute):   |                          |                              |           |
| Algae:                     | Desmodesmus subspicatus  | EC <sub>50</sub> @ 72 hr. =  | 13.1 mg/L |
| Crustacea                  | Daphnia magna            | EC <sub>50</sub> @ 48 hr. =  | 10.8 mg/L |
| Fish:                      | Danio rerio              | LC <sub>50</sub> @ 96 hr. =  | 22 mg/L   |
| Domestic Activated Sludge: |                          | EC <sub>50</sub> @ 1/2 hr. = | 70 mg/L   |

### Persistence and Degradability:

Readily degradable in water.

### Bioaccumulation:

This product is not expected to bioaccumulate.

### Adsorption:

Soil/sediment sorption - log K<sub>oc</sub>: No data currently available.

### Mobility in General:

Henry's law @ 25°C: No data currently 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 use of this product.

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### 13. Disposal Considerations

Consult and observe the requirements of all appropriate and applicable International, Federal, Provincial, State, Regional, Local, or Municipal regulations when disposing this product or its container with residual product remaining. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this product to drain into sewers or water supplies. Do not contaminate ponds, waterways, or ditches with this product or its used container. Empty containers or liners may contain some product residues, follow label warnings even after container is emptied. Dispose of this product or its containers in a safe manner in accordance with all applicable regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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### 14. Transport Information

|   |                                   |
|---|-----------------------------------|
| DOT:  | Not regulated as dangerous goods. |
| IATA:   | Not regulated as dangerous goods. |
| IMDG:   | Not regulated as dangerous goods. |
| Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: | Not applicable.                   |

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### 15. Regulatory Information

|   |     |
|---|-----|
| <b>Hazardous Chemical According to the Occupational Safety and Health Association (OSHA) Harard Communication Standard, 29 CFR 1910.1200:</b> | Yes |
|---|-----|

|                                  |                |
|----------------------------------|----------------|
| <b>TSCA Section 8(b) Status:</b> | Not Regulated. |
|----------------------------------|----------------|

|                                   |                |
|-----------------------------------|----------------|
| <b>TSCA Section 12(b) Status:</b> | Not Regulated. |
|-----------------------------------|----------------|

|   |             |
|---|-------------|
| <b>OSHA Specially Regulated Substances (29 CFR 1910.1001 - 1050):</b> | Not Listed. |
|---|-------------|

|   |  |
|---|--|
| <b>Comprehensive Environmenal Response Compensation and Liability Act (CERCLA) - Hazardous Substance List (40 CFR 302):</b> | This product, as supplied, contains no substances regulated as a hazardous substance under this Act. |
|---|--|

**Superfund Amendments and  
Reauthorization Act of 1986 (SARA) 311/312  
Hazard Categories:**

|   |  |
|---|--|
| <b>Acute Health Hazard:</b>   | Yes  |
| <b>Chronic Health Hazard:</b>   | No   |
| <b>Fire Hazard:</b>   | No   |
| <b>Sudden Release of Pressure<br/>Hazard:</b>   | No   |
| <b>Reactivity Hazard:</b>   | No   |
| <b>SARA Section 313 of Title III of the<br/>Superfund Amendments and<br/>Reauthorization Act of 1986 (EPCRA / TRI<br/>Reporting):</b>   | This product does not contain any chemicals which are subject to reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.  |
| <b>Safe Drinking Water Act (SDWA):</b>  | Not Regulated  |
| <b>Clean Air Act (CAA) Section 112(r)<br/>Accidental Release Prevention (40 CFR<br/>68.130):</b>  | Not Regulated  |
| <b>Clean Air Act (CAA) Section 112 Hazardous<br/>Air Pollutants (HAPs) List:</b>  | Not Regulated  |
| <b>Other U.S. State Inventories</b><br><b>This product DOES NOT contain<br/>components that are listed on the<br/>following State Hazardous Substance<br/>Inventories or Right-to-Know lists:</b> | Massachusetts RTK - Substance<br>New Jersey Worker and Community Right-to-Know Act<br>Pennsylvania Worker and Community Right-to-Know Law<br>Rhode Island RTK  |
| <b>California Proposition 65, Safe<br/>Drinking Water and Toxic<br/>Enforcement Act of 1986:</b>  | This product does not contain materials listed by the State of California Environmental Protection Agency Office of Environmental Health Hazard Assessment Safe Drinking Water and Toxic Enforcement Act of 1986 as Chemicals Known to the State of California to Cause Cancer or Reproductive Harm. |

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**16. Other Information**

|                                |   |
|--------------------------------|---|
| <b>Prepared For:</b>           | MISCO Industrial, LLC<br>1018 Stearman Drive; White House, TN 37188<br>(615) 334-1861 |
| <b>Date of Latest Version:</b> | March 1, 2017   |

**Sections of SDS Revised:**

Created SDS in GHS standard format for MISCO Industrial.

**Further Information:**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the test.

---End of SDS---