SAFETY DATA SHEET

Issue Date: 17-Apr-2015  
Revision Date: 17-Apr-2015  
Version: GHS

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier
Product Name: BUG BUSTER II  
EPA Registration Number: 1021-1778-54705

Recommended use of the chemical and restrictions on use:
Recommended Use: Insecticide

Details of the Supplier of the Safety Data Sheet
Distributed by: Lawn and Garden Products, Inc.  
PO Box 35000  
Fresno, CA  93745  
Phone – (559) 499-2100

Emergency Phone Number (24 Hour): CHEMTREC®: (800) 424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status:
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

<table>
<thead>
<tr>
<th>Hazard Type</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Oral</td>
<td>Category 4</td>
</tr>
<tr>
<td>Acute toxicity – Inhalation (Dusts/Mists)</td>
<td>Category 4</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 3</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

Label Elements

WARNING

Hazard Statements
H316 – Causes mild skin irritation  
H332 – Harmful if inhaled  
H302 – Harmful if swallowed  
H317 – May cause an allergic skin reaction  
H400 – Very toxic to aquatic life  
H410 – Very toxic to aquatic life with long lasting effects

Appearance: light yellow  
Physical state: Liquid  
Odor: Slight – Sweet

Precautionary Statements – Prevention:
P264 – Wash face, hands and any exposed skin thoroughly after handling  
P270 – Do not eat, drink or smoke when using this product
P261 – Avoid breathing dust/fume/gas/mist/vapors/spray
P271 – Use only outdoors or in a well-ventilated area
P272 – Contaminated work clothing should not be allowed out of the workplace
P280 – Wear protective gloves

Precautionary Statements – Response:
P321 – Specific treatment (see Section 4/First Aid)
P302 + P352 – IF ON SKIN: Wash with plenty of soap and water
P333 + P313 – If skin irritation or rash occurs: Get medical advice/attention
P363 – Wash contaminated clothing before reuse
P304 + P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P312 – Call a POISON CENTER or doctor/physician if you feel unwell
P301 + P312 – IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P330 – Rinse mouth

Precautionary Statements – Storage:
P403 + P233 – Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements – Disposal:
P501 – Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC):
Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Esfenvalerate</td>
<td>66230-04-4</td>
<td>0.425</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret.

Comments: Ingredients not identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

Aspiration pneumonia hazard: * No information available

Description of first aid measures:

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

Ingestion: If swallowed, IMMEDIATELY call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or a doctor. Never give anything by mouth to an unconscious person.

Self-protection of the First Responder: Use personal protective equipment as required.

Note to physicians: For skin effects, a highly efficient therapeutic agent for Pyrethrin/Pyrethroid exposure is topical application of oftocopherol acetate (Vitamin E).

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media:
Caution: Use of water spray when fighting fire may be inefficient.
Hazardous combustion products: Hydrogen cyanide, carbon monoxide, carbon dioxide (CO₂).

Specific hazards arising from the chemical
No information available

**Explosion data**
- **Sensitivity to Mechanical Impact:** None.
- **Sensitivity to Static Discharge:** None.

**Protective equipment and precautions for firefighters:**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and Chemical Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health hazards</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health hazards</th>
<th>Flammability</th>
<th>Physical hazards</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health hazards</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>X</td>
</tr>
</tbody>
</table>

**Chronic Hazard Star Legend**

* = Chronic Health Hazard

---

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions:** Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods for containment:** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up:** Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

---

### 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling:** Use personal protective equipment as required, Ensure adequate ventilation, especially in confined areas. Use with local exhaust ventilation. Do not breathe dust/fume/gas/mist/vapors/spray.

**Conditions for safe storage, including any incompatibilities**

**Storage conditions:** Keep container tightly closed in a dry and well-ventilated place. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. For more information, see product label.

---

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure guidelines:** This product as supplied does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Appropriate engineering controls

Engineering controls
- Safety showers
- Eyewash stations
- Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection: Tight sealing safety googles. Face protection shield.
Skin and body protection: Wear protective gloves and protective clothing.
Respiratory protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations: When using, do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work areas and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state: Liquid
Appearance: Light yellow
Odor: Slight – Sweet
Odor threshold: No information available
Color (Gardner Scale): 2

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>5.5</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Boiling point/boiling range:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flash point:</td>
<td>&gt; 93.3 ºC / &gt; 200.0 ºF</td>
<td>Tag Closed Cup</td>
</tr>
<tr>
<td>Flame Extension Test:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas):</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit (UEL):</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Lower flammability limit (LEL):</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor density:</td>
<td>Heavier than air</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient; n-Octanol/</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Water:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Kinematic viscosity:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Dynamic viscosity:</td>
<td>14.7 cPs</td>
<td>@ 23.0 ºC</td>
</tr>
<tr>
<td>Refractive index:</td>
<td>1.3787</td>
<td>@ 25 ºC (77 ºF)</td>
</tr>
<tr>
<td>Other Information:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density:</td>
<td>1.024 g/cm³ @ 20.0 ºC</td>
<td></td>
</tr>
<tr>
<td>VOC Content (%):</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Miscibility/Solubility:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water:</td>
<td>Miscible</td>
<td></td>
</tr>
<tr>
<td>Alcohol:</td>
<td>Miscible</td>
<td></td>
</tr>
<tr>
<td>Petroleum distillates:</td>
<td>Immiscible</td>
<td></td>
</tr>
<tr>
<td>Aromatic solvents:</td>
<td>Immiscible</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity
No data available
Chemical stability
Stable under recommended storage conditions

Possibility of hazardous reactions
None under normal processing

Hazardous polymerization: Hazardous polymerization does not occur

Conditions to avoid
Extremes of temperature and direct sunlight.

Incompatible materials
Incompatible with strong acids and bases. Incompatible with oxidizing agents

Hazardous decomposition products
Hydrogen cyanide, carbon monoxide, carbon dioxide (CO₂)

11. TOXICOLOGICAL INFORMATION

Numerical measures of toxicity – Product Information

Oral LD₅₀: >1,500 mg/kg (rat)
Dermal LD₅₀: >2,000 mg/kg (rabbit)
Inhalation LC₅₀: >2.02 mg/L (rat; 4 hours)
  
Eye contact: Irritation clearing in 72 hours
Skin contact: Slight irritation at 72 hours
Skin irritation index: 1.17

Sensitization: Sensitizer; skin (guinea pig)

Carcinogenicity: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP

Reproductive toxicity: No information available
  
  Developmental toxicity: No information available
  
  Teratogenicity: No information available

STOT – single exposure: No information available
STOT – repeated exposure: No information available

Chronic toxicity: Avoid repeated exposure
Neurological effects: No information available

12. ECOLOGICAL INFORMATION

Excotoxicity:

Persistence and degradability
No information available

Bioaccumulation
No information available

Other adverse effects: No information available

Environmental hazards (EPA):
Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations. For more information, see product label.
Contaminated packaging: For more information, see product label.

14. TRANSPORT INFORMATION

**DOT (Department of Transportation)**

**Proper Shipping Name:** Insecticides or Fungicides, Liquid

**Hazard Class:** Non-Hazardous

**Other Shipping Information:** This material is not regulated by the DOT as a hazardous material when shipped in Non-Bulk quantities (i.e., less-than 119 Gallons / 450 Liters)

**Air (IATA / ICAO)**

**Proper Shipping Name:** Insecticides or Fungicides, Liquid

**Hazard Class:** Non-Hazardous

**Vessel (IMO / IMDG):** Not available

15. REGULATORY INFORMATION

**US Federal Regulations**

**SARA 313**
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 HAZARD**

**Categories**

- **Acute health hazard** Yes
- **Chronic health hazard** No
- **Fire hazard** No
- **Sudden release of pressure hazard** No
- **Reactive hazard** No

**CWA (Clean Water Act)**
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**
This material, as supplied does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**US State Regulations**

**California Proposition 65:**
This product does not contain any Proposition 65 chemicals

**US EPA Label Information:**
EPA Registration Number: 1021-1778-54705

**Difference between SDS and EPA (FIFRA) Pesticide Label:**
This chemical 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-pesticide chemicals. The pesticide label also includes other important information, including directions for use. The hazard information required on the pesticide label is reproduced below:
Precautionary Statements:
Harmful if swallowed
Harmful if absorbed through the skin
Causes moderate eye irritation
Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals

International:
TSCA Does not comply
DSL/NDSL Does not comply
EINECS/ELINCS Does not comply
ENCS Does not comply
IECSC Does not comply
KECL Does not comply
PICCS Does not comply
AICS Does not comply

Legend:
TSCA – United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS – European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS – Japan Existing and New chemical Substances
KECL – Korean Existing and Evaluated Chemical Substances
PICCS – Philippines Inventory of Chemicals and Chemical Substances
AICS – Australian Inventory of Chemical Substances

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Issue Date: Revision Date: Revision Note:
17-April-2015 17-Apr-2015 (MGK) New SDS – GHS Classification

Disclaimer: The data contained herein are based on information currently available to Lawn and Garden Products, Inc. and, to the best of our knowledge, are accurate and based on sound expert opinion. Our statements herein, however, are not to be taken as a warranty or representation for which Lawn and Garden Products, Inc. assumes legal responsibility.

End of Safety Data Sheet