SECTION 1: Identification

1.1. Identification
Product form: Mixture
Trade name: Musca-Cide Fly Bait Spray
Synonyms: EPA Reg. No.: 2724-838-89459, RF2179, 100530483

1.2. Recommended use and restrictions on use
Recommended use: For control of house flies in industrial, commercial and agricultural settings.
Restrictions on use: Avoid contact with eyes, skin or clothing, Keep out of reach of children, Do not use or store near heat or open flame.

1.3. Supplier
Central Garden & Pet Company
1501 E. Woodfield Road, Suite 200W
Schaumburg, IL 60173 - United States

1.4. Emergency telephone number
Emergency number: 1-800-248-7763
1-800-424-9300 - CHEMTREC
1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture
GHS-US classification: Combustible Dust
May form combustible dust concentrations in air

2.2. GHS Label elements, including precautionary statements
GHS-US labeling:
Signal word (GHS-US): Warning
Hazard statements (GHS-US): May form combustible dust concentrations in air

2.3. Other hazards which do not result in classification
Other hazards not contributing to the classification: This product is toxic to shrimp and bees.

2.4. Unknown acute toxicity (GHS US)
Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dinotefuran</td>
<td>(CAS No) 165252-70-0</td>
<td>0.5</td>
</tr>
<tr>
<td>9-Tricosene, (Z)</td>
<td>(CAS No) 27519-02-4</td>
<td>0.04</td>
</tr>
<tr>
<td>Sucrose</td>
<td>(CAS No) 57-50-1</td>
<td>80 - 99</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>(CAS No) N/A</td>
<td>Balance</td>
</tr>
</tbody>
</table>

SECTION 4: First-aid measures

4.1. Description of first aid measures
First-aid measures after inhalation: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact: IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice and attention.

First-aid measures after ingestion: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel.

4.2. Most important symptoms and effects (acute and delayed)
No additional information available

4.3. Immediate medical attention and special treatment, if necessary
Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media
Suitable extinguishing media: Class A stored-pressure wet-water or water-mist extinguisher or extinguishing media that is appropriate for the surrounding fire and materials.

Unsuitable extinguishing media: Avoid heavy hose streams.

5.2. Specific hazards arising from the chemical
Explosion hazard: Dust cloud can be ignited by a spark.
Reactivity: This material is friable and can create small dust particles during any handling, processing, and transfer operations. This material can form explosive dust/air suspensions that are ignitable under some conditions.

5.3. Special protective equipment and precautions for fire-fighters
Firefighting instructions: Combustible dust - use low-pressure medium fog streams to avoid dust clouds. Ventilate closed spaces before entering. Eliminate ignition sources.
Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel

6.1.2. For emergency responders
Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures: Contain spill and monitor for excessive dust accumulation. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ventilate closed spaces before entering. Turn off electric power to area. As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions. Evacuate area.

6.2. Environmental precautions
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Use appropriate PPE. Sweep or scoop spills, dispose of any unusable material in approved landfill. Non-sparking tools should be used. Minimize generation of dust.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Avoid dust formation. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.

Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
**Sucrose (57-50-1)**

<table>
<thead>
<tr>
<th></th>
<th>ACGIH TWA (mg/m³)</th>
<th>OSHA PEL (TWA) (mg/m³)</th>
<th>NIOSH REL (TWA) (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ACGIH</strong></td>
<td>10 mg/m³</td>
<td>15 mg/m³ (total dust)</td>
<td>10 mg/m³ (total dust)</td>
</tr>
<tr>
<td><strong>OSHA</strong></td>
<td></td>
<td>5 mg/m³ (respirable fraction)</td>
<td></td>
</tr>
<tr>
<td><strong>NIOSH</strong></td>
<td></td>
<td></td>
<td>5 mg/m³ (respirable dust)</td>
</tr>
</tbody>
</table>

**8.2. Appropriate engineering controls**

Appropriate engineering controls: Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Environmental exposure controls: Avoid release to the environment.

**8.3. Individual protection measures/Personal protective equipment**

**Hand protection:**
Protective gloves

**Eye protection:**
Safety glasses

**Skin and body protection:**
Wear suitable protective clothing

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

- **Physical state:** Solid
- **Appearance:** White granular solid.
- **Color:** White
- **Odor:** Fish like
- **Odor threshold:** No data available
- **pH:** No data available
- **Melting point:** Not applicable
- **Freezing point:** Not applicable
- **Boiling point:** Not applicable
- **Flash point:** Not applicable
- **Relative evaporation rate (butyl acetate=1):** No data available
- **Flammability (solid, gas):** Non flammable.
- **Vapor pressure:** No data available
- **Relative vapor density at 20 °C:** No data available
- **Relative density:** Not applicable
- **Solubility:** Soluble.
- **Log Pow:** No data available
- **Auto-ignition temperature:** Not applicable
- **Decomposition temperature:** No data available
- **Viscosity, kinematic:** Not applicable
- **Viscosity, dynamic:** No data available
- **Explosion limits:** Not applicable
- **Explosive properties:** Minimum Ignition Energy – Dust Cloud: 50 - 100 mJ.
- **Oxidizing properties:** Not applicable
**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

This material is friable and can create small dust particles during any handling, processing, and transfer operations. This material can form explosive dust/air suspensions that are ignitable under some conditions.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

No dangerous reactions known under normal conditions of use.

**10.4. Conditions to avoid**

None under recommended storage and handling conditions (see section 7).

**10.5. Incompatible materials**

Strong oxidizers, such as potassium permanganate, potassium chlorate, potassium nitrate, potassium perchlorate, and nitric acid. Strongly hydrophilic liquids such as sulfuric acid can release carbon monoxide upon contact with sugar. Carbon dioxide, flammable aldehyde, and carbon monoxide may form when heated to decomposition, or heated with strong, concentrated alkalis. This reaction is exothermic.

**10.6. Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition, at temperatures in excess of 365°F, may release flammable gases and acrid fumes and smoke, including aldehydes, carbon monoxide, carbon dioxide, and steam. If confined, the decomposition gases can exert considerable pressure.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

<table>
<thead>
<tr>
<th>Substance</th>
<th>LD50 oral rat</th>
<th>LD50 dermal rabbit</th>
<th>LC50 inhalation rat (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dinotefuran (165252-70-0)</td>
<td>2000 - 2804 mg/kg</td>
<td>&gt; 2000 mg/kg</td>
<td>&gt; 4.09 mg/l/4h</td>
</tr>
<tr>
<td>9-Tricosene, (Z) (27519-02-4)</td>
<td>&gt; 5000 mg/kg</td>
<td>&gt; 2000 mg/kg</td>
<td>&gt; 5 mg/l</td>
</tr>
</tbody>
</table>

**GHS-US Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cells mutagen</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicant (single exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicant (repeated exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

**Potential health effects**

**Mutagenicity**: Dinotefuran technical was negative in the following in vitro assays: Ames Assay, mouse lymphoma (L5178Y), mammalian cytogenetics (CHL/IU) or DNA Repair, Z-9/E-9 Tricosene is not expected to be a mutagen.

**Carcinogenicity**: No component of this product present at 0.1% or greater is listed by IARC, OSHA or NTP.

**Reproductive Effects**: Dinotefuran technical did not produce developmental effects in rats at doses up to 1000 mg/kg/day (the highest doses tested), 9-Tricosene, (Z) did not produce developmental effects in rats.

**SECTION 12: Ecological information**

**12.1. Toxicity**
Dinotefuran (165252-70-0)

- **LC50 Acute fish 1**: > 100 mg/l (Exposure time: 96h - Rainbow trout)
- **LC50 Acute crustacea 1**: > 1000 mg/l (Exposure time: 48h - Daphnia magna)

9-Tricosene, (Z) (27519-02-4)

- **LC50 Acute fish 1**: > 1000 mg/l (Exposure time: 96h - Rainbow trout)
- **LC50 Acute fish 2**: > 1000 mg/l (Exposure time: 96h - Blue gill)
- **EC50 Daphnia 1**: 1.08 mg/l (Exposure time: 48h - Daphnia magna)

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil
No additional information available

12.5. Other adverse effects
**Musca-Cide Fly Bait Spray**

- Ecological Fate: This pesticide is toxic to shrimp and highly toxic to bees.

SECTION 13: Disposal considerations

13.1. Disposal methods
Product/Packaging disposal recommendations: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

SECTION 14: Transport information

<table>
<thead>
<tr>
<th></th>
<th>UN number</th>
<th>Proper Shipping Name</th>
<th>Transport hazard class(es)</th>
<th>Packing group</th>
<th>Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>IMDG</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>IATA</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
</tbody>
</table>

SECTION 15: Regulatory information

15.1. US Federal regulations

**9-Tricosene, (Z) (27519-02-4)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Sucrose (57-50-1)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory

**FIFRA Labelling**
- **EPA Registration Number**: 2724-838-89459
- **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 hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.**
- **FIFRA Signal Word**: Caution
- **FIFRA Hazard Statement**: KEEP OUT OF REACH OF CHILDREN.
FIFRA Hazards to Humans and Domestic Animals

| HAZARDS TO HUMANS AND DOMESTIC ANIMALS - CAUTION- Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear long-sleeved shirt and long pants, socks, shoes and gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

FIFRA First Aid

| IF SWALLOWED: Call a poison control center or doctor for treatment advice. Have a 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 doctor. Do not give anything by mouth to an unconscious person. IF ON SKIN: 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. IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth to mouth if possible. Call poison control center or doctor for treatment advice.

FIFRA Environmental Hazards

| This product is toxic to shrimp. Do not apply directly to water, areas where surface water is present, or to intertidal areas below the mean high water mark. Drift or runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters. This product is highly toxic to bees exposed to direct treatment. Do not apply this product if bees are foraging in the treatment areas.

15.2. US State regulations

No additional information available

SECTION 16: Other information

Date of issue : 25 May 2017

SDS US (GHS HazCom 2012) - CGP

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.