SECTION 1: Identification

1.1. Identification

Product form: Mixture
Trade name: ClariFly Larvicide Livestock Premix 0.04%
Synonyms: EPA Reg. #: 89459-3; RMI-2011-D

1.2. Recommended use and restrictions on use

Recommended use: Insect growth regulator.
Restrictions on use: Keep out of reach of children. Avoid contact with eyes, skin or clothing. 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
www.centrallyflycontrol.com

1.4. Emergency telephone number

Emergency number: 1-800-347-8272
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 pesticide is toxic to aquatic invertebrates. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

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>Diflubenzuron</td>
<td>(CAS-No.) 35367-38-5</td>
<td>0.04</td>
</tr>
<tr>
<td>Animal Feed Ingredients - variable</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. Wash skin with plenty of water. Take off contaminated clothing. 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
Unsuitable extinguishing media: Avoid heavy hose streams.

5.2. Specific hazards arising from the chemical
Explosion hazard: Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
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. Move containers away from the fire area if this can be done without risk.
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
Protective equipment: Avoid contact with skin, eyes and clothing. Wear suitable protective equipment.

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, flames, 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: Sweep or scoop spills, dispose of any unusable material in approved landfill. Use appropriate PPE. 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. Non-sparking tools should be used.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Avoid dust formation. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Provide local exhaust or general room ventilation. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Avoid humid, wet or moist conditions. Keep container tightly closed. Store in original container. Store in a well-ventilated place. Keep cool. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.


SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls: It is recommended that dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment. 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 long-sleeved shirt and long pants, and shoes plus socks.

Respiratory protection: In case of insufficient ventilation, use NIOSH approved respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Light brown to dark brown granules, flakes or other</td>
</tr>
<tr>
<td>Color</td>
<td>Light brown to dark brown</td>
</tr>
<tr>
<td>Odor</td>
<td>Varies - depends on animal feeds</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Non-flammable</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.97 g/cc (varies)</td>
</tr>
<tr>
<td>Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water (Log Pow)</td>
<td>No data available</td>
</tr>
</tbody>
</table>
ClariFly Larvicide Livestock Premix 0.04%  
Safety Data Sheet

9.2. Other information
No additional information available

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
May form combustible dust concentrations in the air. Hazardous polymerization will not occur.

10.4. Conditions to avoid
Avoid dust formation. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials
Strong oxidizing agents. Heat, sparks, open flame.

10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

**Diflubenzuron (35367-38-5)**

<table>
<thead>
<tr>
<th>Toxicity Test</th>
<th>Test Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 4640 mg/kg (Rat, Oral)</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 2000 mg/kg (Rabbit, Dermal)</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>&gt; 2.88 mg/l 6 h</td>
</tr>
</tbody>
</table>

**GHS-US Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</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 cell mutagenicity</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 toxicity (single exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

**Potential health effects**

**Inhalation**

Acute: Exposure to dust may cause nasal and respiratory irritation.

Chronic: Repeated or prolonged inhalation of dust may cause respiratory irritation.

**Skin**

Acute: May cause mild mechanical irritation.
ClariFly Larvicide Livestock Premix 0.04%
Safety Data Sheet

Eye
Acute : May cause mild mechanical irritation.

Ingestion
Acute : Under normal conditions of use, no health effects are expected.

Mutagenicity : Diflubenzuron is not a mutagen.

Carcinogenicity : Diflubenzuron is not classified as a carcinogen by NTP, IARC and OSHA.

Reproductive Effects : Diflubenzuron is not a reproductive toxicant.

SECTION 12: Ecological information

12.1. Toxicity

Diflubenzuron (35367-38-5)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Acute fish 1</td>
<td>140 mg/l Exposure time: 96h Rainbow trout</td>
</tr>
<tr>
<td>LC50 Acute fish 2</td>
<td>135 mg/l Exposure time: 96h Blue gill</td>
</tr>
<tr>
<td>EC50 Acute crustacea 1</td>
<td>0.002 mg/l Exposure time: 96h Mysid shrimp</td>
</tr>
<tr>
<td>EC50 Acute crustacea 2</td>
<td>0.0037 mg/l Exposure time: 48h Daphnia magna</td>
</tr>
<tr>
<td>NOEC Chronic fish 1</td>
<td>0.1 mg/l Fathead minnow</td>
</tr>
<tr>
<td>NOEC Chronic crustacea 1</td>
<td>0.000045 mg/l Mysid shrimp</td>
</tr>
<tr>
<td>NOEC Chronic crustacea 2</td>
<td>0.00004 mg/l Daphnia magna</td>
</tr>
</tbody>
</table>

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

ClariFly Larvicide Livestock Premix 0.04%
Ecological Fate : This pesticide is toxic to aquatic invertebrates.

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 applicable</td>
</tr>
<tr>
<td>IMDG</td>
<td>UN3077</td>
<td>Packaging greater than 5 kg: Environmentally hazardous substance, solid, n.o.s (Diflubenzuron)</td>
<td>9</td>
<td>III</td>
<td>Marine pollutant</td>
</tr>
<tr>
<td>IATA</td>
<td>UN3077</td>
<td>Packaging greater than 5 kg: Environmentally hazardous substance, solid, n.o.s (Diflubenzuron)</td>
<td>9</td>
<td>III</td>
<td>Acute aquatic toxicity</td>
</tr>
</tbody>
</table>

SECTION 15: Regulatory information

15.1. US Federal regulations

Diflubenzuron (35367-38-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313
SARA Section 313 - Emission Reporting : 1 %

FIFRA Labelling
15.2. US State regulations
No additional information available

SECTION 16: Other information

Date of issue : 05 November 2014
Revision date : 12 March 2020
Supersedes : 23 January 2020

Indication of changes:
Revised Sec. 1 - emergency telephone number.

SDS US (GHS HazCom 2012) - CGP

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