

**MATERIAL SAFETY DATA SHEET  
CLARIFLY™ LARVICIDE**

**Manufacturer:** Wellmark International  
**Address:** 1501 East Woodfield Road, Suite 200-West Schaumburg, IL 60173  
**Emergency Phone:** 800-347-8272  
**Transportation Emergency Phone:** CHEMTREC: 1-800-424-9300

**1. CHEMICAL PRODUCT INFORMATION**

**Product Name:** CLARIFLY™ LARVICIDE  
**Chemical Name/Synonym:** Diflubenzuron: 1-[4-chlorophenyl]-3-[2,6-difluorobenzoyl] urea  
**Chemical Family:** Benzoylurea  
**Formula:** C<sub>14</sub> H<sub>9</sub> Cl F<sub>2</sub> N<sub>2</sub> O<sub>2</sub>  
**EPA Registration No.:** 400-536-2724  
**RF Number:** 2086

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

<u>Component (chemical, common name)</u>	<u>CAS Number</u>	<u>Weight</u>	<u>Tolerance</u>
Diflubenzuron	35367-38-5	0.67%	
Inert Ingredients: (nonhazardous and/or trade secret)		99.33%	

**3. HAZARD INFORMATION**

**PRECAUTIONARY STATEMENTS  
KEEP OUT OF REACH OF CHILDREN  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUSES MODERATE EYE IRRITATION  
WEAR PROTECTIVE EYEWARE**

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Excessive overexposure to active ingredient may cause methemoglobinemia

**PRIMARY ROUTE OF ENTRY**    Dermal/Eye: Yes                      Oral: No                      Inhalation: No

**ACUTE TOXICITY**

**Oral:** No specific hazard identified.  
**Dermal:** No specific hazard identified.  
**Inhalation:** No specific hazard identified.

**OTHER TOXICOLOGICAL INFORMATION**

**Skin Irritation:** No specific hazard identified.  
**Eye Irritation:** Causes moderate eye irritation.  
**Sensitizer:** Not a dermal sensitizer.

#### 4. FIRST AID MEASURES

**Eye:** 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. Call poison control center or doctor for treatment advice.

**Note to Physician:** There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition.

#### 5. FIRE FIGHTING MEASURES

**NFPA Rating:**    **Health: 1**                      **Fire: 0**                      **Reactivity: 0**

**Flammability Class:** Not available.

**Flash Point:** Not applicable.

**Explosive Limits (% of Volume):** Not available.

**Extinguishing Media:** Water fog, foam, dry chemical.

**Special Protective Equipment:** Firefighters should wear protective clothing, eye protection, and self-contained breathing apparatus.

**Fire Fighting Procedures:** Normal procedures. Do not allow run-off to enter waterways inhabited by aquatic organisms.

**Combustion Products:** Oxides of Carbon and Nitrogen.

**Unusual Fire/Explosion Hazards:** None known.

#### 6. ACCIDENTAL RELEASE MEASURES

**Steps to be taken:** Sweep up material and place in a container for disposal. Do not allow spill to enter waterways inhabited by aquatic organisms.

**Absorbents:** None necessary due to product form and packaging.

**Incompatibles:** Strong acids, oxidizing agents and caustics.

#### 7. HANDLING AND STORAGE

**Handling:** Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

**Storage:** Store closed containers in a cool, dry place. Do not contaminate water, food or feed by storage.

#### 8. EXPOSURE CONTROL / PERSONAL MEASURES

**Exposure Limits:** Not available.

**Ventilation:** Use with adequate ventilation.

**Personal Protective Equipment:** At a minimum, long sleeved shirt, long pants, socks, shoes, chemical resistant gloves and protective eyewear. If prolonged exposure to high levels of nuisance dust is anticipated, it is recommended that handlers wear an approved respirator.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance and Odor:</b>	White to off-white particulate solid.
<b>Boiling Point:</b>	Not applicable.
<b>Melting Point:</b>	Not available.
<b>Vapor Pressure (mm Hg):</b>	Not applicable.
<b>Vapor Density (Air = 1):</b>	Not applicable.
<b>Specific Gravity:</b>	0.40
<b>Bulk Density:</b>	24.9 lbs per cubic foot.
<b>Solubility:</b>	Less than 1% in water.
<b>Evaporation Rate:</b>	Not applicable.
<b>pH:</b>	Slightly alkaline.

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable.
<b>Reactivity:</b>	Not reactive.
<b>Incompatibility w/ Other Materials:</b>	Strong oxidizers.
<b>Decomposition Products:</b>	Oxides of carbon and nitrogen from incomplete combustion.
<b>Hazardous Polymerization:</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY [Specific to Active Ingredient(s)]:

Acute oral toxicity: LD50 >4640 mg/kg (rat)  
Acute dermal toxicity: LD50 >2000 mg/kg (rabbit)  
Acute inhalation: LC50 (6 hr) >2.88 mg/L (rat)  
Skin irritation: Moderate irritation  
Eye irritation: Slight irritation  
Not a dermal sensitizer

## 12. ECOLOGICAL INFORMATION

### ECOTOXICITY [Active Ingredients Only]

**Acute Toxicity:** **Fish:** LC50 >106.4 mg/L (rainbow trout); LC50 >64.8 mg/L (zebra fish).  
**Aquatic invertebrates:** LC50 = 0.0026 mg/L (Daphnia magna); **Plants:** IC50 >80 mg/L (Selenastrim capricornutum).

## 13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food or feed by disposal. **Pesticide Disposal:** Waste resulting from the use of this product may be disposed of on site or at an approved chemical waste disposal facility in compliance with federal, state, and local requirements.

#### 14. TRANSPORT INFORMATION

**DOT49CFR Description:** NOT APPLICABLE.

**Freight Classification:** INSECTICIDES NOI NMFC I-102120 CLASS 60.

#### 15. REGULATORY INFORMATION

**CERCLA (Superfund):** Not regulated.

**RCRA:** Not regulated.

#### SARA 311/312 HAZARD CATEGORIES

**Immediate Health:** Yes.

**Delayed Health:** No.

**Fire:** No.

**Sudden Pressure:** No.

**Reactivity:** No.

*The information presented herein, while not guaranteed, was prepared by technically knowledgeable personnel and to the best of our knowledge is true and accurate. It is not intended to be all inclusive and the manner and conditions of use and handling may involve other or additional considerations.*

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