Safety Data Sheet



Section 1: Identification

Product identifier

Product Name Clarifly Larvicide 267

· 100523823; EPA Reg. No.: 89459-82; RF2233 267 DFB Granules Synonyms

Product Description White free-flowing granular solid.

Relevant identified uses of the substance or mixture and uses advised against

Recommended use · Prevents the development of flies.

Restrictions on use KEEP OUT OF THE REACH OF CHILDREN. Avoid contact with skin, eyes, or

clothing.

Details of the supplier of the safety data sheet

Manufacturer Central Garden and Pet Company

1501 E. Woodfield Road, Suite 200W

Schaumburg, IL 60173

United States

www.centralflycontrol.com

Emergency telephone number

Manufacturer 1-800-347-8272

Manufacturer (Transportation) • 1-800-424-9300 - CHEMTREC

Manufacturer (Transportation) • 1-703-527-3887 - CHEMTREC - Outside US Collect Calls Accepted

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012 Eye Mild Irritation 2B

Specific Target Organ Toxicity Repeated Exposure 2

Label elements

OSHA HCS 2012

WARNING



Hazard statements • Eye Mild Irritation 2B

May cause damage to organs through prolonged or repeated exposure - blood.

Preparation Date: 25/March/2016 Revision Date: 25/March/2016

Format: GHS Language: English (US) OSHA HCS 2012

ITEM # 005020

Page 1 of 8

04/28/23

Precautionary statements

Prevention • Wash thoroughly after handling.

Do not breathe dust, fume, gas, mist, vapors and/or spray.

Response - 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/attention.

Get medical advice/attention if you feel unwell.

Storage/Disposal ·

Dispose of content and/or container in accordance with local, regional, national, and/or

international regulations.

Avoid release to the environment.

Other hazards OSHA HCS 2012

Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients

Substances

Material does not meet the criteria of a substance.

Mixtures

Composition		
Chemical Name	Identifiers	%
Diflubenzuron	CAS:35367-38-5	2.67%
Sodium chloride	CAS:7647-14-5	96.66%
Other ingredients	NDA	Balance

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms persist.

Skin

IF ON SKIN: Wash skin with soap and water. Call poison control center or doctor for treatment advice.

Eye

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/attention.

Ingestion

IF SWALLOWED: Call a POISON CONTROL center or doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting unless directed by medical personnel.

Preparation Date: 25/March/2016 Revision Date: 25/March/2016

Most important symptoms and effects, both acute and delayed

 Repeated and prolonged exposure may cause methemoglobinemia. Causes mild eve irritation. Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

· Treat symptomatically and supportively.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media • Use water, foam, carbon dioxide, or dry chemical.

Unsuitable Extinguishing Media

Avoid heavy hose streams.

Firefighting Procedures

Do not allow fire fighting water to escape into waterways or sewers.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

Material is non-combustible and is not expected to pose a fire or explosion hazard.

Hazardous Combustion

Products

May evolve chlorine gas when in contact with strong acids.

Advice for firefighters

Do not allow run-off to enter waterways. Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions

Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Avoid dust formation and breathing dust.

Emergency Procedures

No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended.

Environmental precautions

· Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up

Measures

Avoid generating dust.

Use appropriate Personal Protective Equipment (PPE).

Sweep up material and place in suitable container for disposal.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

Avoid breathing dust. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

Conditions for safe storage, including any incompatibilities

Preparation Date: 25/March/2016 Revision Date: 25/March/2016

Format: GHS Language: English (US) OSHA HCS 2012

Storage

Store in cool, dry area, inaccessible to children. Store away from strong acids. Avoid humid or wet conditions. Becomes corrosive to metals when wet.

Incompatible Materials or Ignition Sources

· Strong acids.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines • N

· No data available.

Exposure controls

Engineering

Measures/Controls

· Use adequate ventilation to remove vapors (fumes, dust etc)

Personal Protective Equipment

Pictograms



Respiratory

If airborne dust is present or in case of inadequate ventilation, use appropriate NIOSH

approved respiratory protection.

Eye/FaceWear safety glasses.Wear appropriate gloves.

Skin/Body

If prolonged exposure is anticipated, it is recommended for handlers to wear

appropriate clothing to prevent skin contact.

Environmental Exposure

Controls

Avoid release to the environment.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description				
Physical Form	Solid	Appearance/Description	White free-flowing granular solid.	
Color	White	Odor	Neutral, slight soap, chalk-like.	
Particulate Size	200 to 600 μm	Odor Threshold	No data available	
General Properties		•		
Boiling Point	No data available	Melting Point/Freezing Point	No data available	
Decomposition Temperature	No data available	рН	Not relevant	
Specific Gravity/Relative Density	No data available Density		No data available	
Bulk Density 1.2 g/cc (74.9 lb/ft)		Water Solubility	Soluble	
Viscosity	Not relevant			
Volatility			**	
Vapor Pressure	No data available	Vapor Density	No data available	
Evaporation Rate No data available				
Flammability				
Flash Point	Not relevant	UEL	No data available	

Preparation Date: 25/March/2016 Revision Date: 25/March/2016 Format: GHS Language: English (US)
OSHA HCS 2012

LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

Reactivity

· Non-reactive under normal handling and storage conditions.

Chemical stability

· Stable under normal temperatures and pressures.

Possibility of hazardous reactions

· Hazardous polymerization will not occur.

Conditions to avoid

Humid and wet conditions. Becomes corrosive to metals when wet.

Incompatible materials

· Strong acids.

Hazardous decomposition products

· No data available.

Section 11 - Toxicological Information

Information on toxicological effects

		Components
Diflubenzuron (2.67%)	la l	Acute Toxicity: Ingestion/Oral-Rat LD50 • >4.64 g/kg; Inhalation-Rat LC50 • >2.49 g/m³; Skin-Rabbit LD50 • 2 g/kg
Sodium chloride (96.66%)	5	Acute Toxicity: Ingestion/Oral-Rat LD50 • 3000 mg/kg; Inhalation-Rat LC50 • >42 mg/L 1 Hour(s); Skin-Rabbit LD50 • >10000 mg/kg; Irritation: Eye-Rabbit • Moderate irritation; Skin-Rabbit • Mild irritation

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met
Skin corrosion/Irritation	OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	OSHA HCS 2012 • Eye Mild Irritation 2B
Skin sensitization	OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	OSHA HCS 2012 • Classification criteria not met
Toxicity for Reproduction	OSHA HCS 2012 • Classification criteria not met
STOT-SE	OSHA HCS 2012 • Classification criteria not met

Preparation Date: 25/March/2016

Revision Date: 25/March/2016 Page 5 of 8

STOT-RE

OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 2

Potential Health Effects

Inhalation

Acute (Immediate)

· Exposure to dust may cause irritation.

Chronic (Delayed)

· Repeated and prolonged exposure may cause methemoglobinemia.

Skin

Acute (Immediate)

• Exposure may cause mechanical irritation. Irritating to damaged skin.

Chronic (Delayed)

• Repeated and prolonged exposure may cause methemoglobinemia.

Eye

Acute (Immediate)

· May cause moderate irritation.

Chronic (Delayed)

No data available.

Ingestion

Acute (Immediate)

Harmful if swallowed.

Chronic (Delayed)

Repeated and prolonged exposure to active ingredient may cause

methemoglobinemia.

Mutagenic Effects

· Diflubenzuron is not a mutagen.

Carcinogenic Effects

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

Reproductive Effects

· Diflubenzuron is not a reproductive toxicant.

Section 12 - Ecological Information

Toxicity

		Components
Diflubenzuron (2.67%)	35367-38-5	Aquatic Toxicity-Fish: 96 Hour(s) LC50 Rainbow Trout 140 mg/L [Acute] 96 Hour(s) LC50 Blue gill 135 mg/L [Acute] NOEC Fathead minnow 0.1 mg/L [Chronic] Aquatic Toxicity-Crustacea: NOEC Mysid shrimp 0.000045 mg/L [Chronic] 96 Hour(s) LC50 Mysid shrimp 0.002 mg/L [Acute] 48 Hour(s) LC50 Water Flea Daphnia magna 0.0037 mg/L [Acute] NOEC Water Flea Daphnia magna 0.00004 mg/L [Chronic]

Persistence and degradability

· No data available.

Bioaccumulative potential

No data available.

Mobility in Soil

· No data available.

Other adverse effects

Potential Environmental Effects

This pesticide is toxic to aquatic invertebrates.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste

 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Preparation Date: 25/March/2016 Revision Date: 25/March/2016

Packaging waste

 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	UN3077	Bulk packaging only: Environmentally Hazardous Substance, Solid, N.O.S. (Diflubenzuron)	9	[I]	Marine Pollutant
IMO/IMDG	UN3077	Inner packaging 5 kg. or greater: Environmentally Hazardous Substance, Solid, N.O.S. (Diflubenzuron)	9	III	Marine Pollutant
IATA/ICAO	UN3077	Inner packaging only: Environmentally Hazardous Substance, Solid, N.O.S. (Diflubenzuron)	9	Ш	Acute Aquatic Toxicity

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 No data available

and the IBC Code Other information

> IMO/IMDG · No data available IATA/ICAO · No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Chronic, Acute, SARA Title III Section 313

FIFRA — Pesticide Labeling

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 nonpesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION

Precautionary Statements • KEEP OUT OF THE REACH OF CHILDREN.

Hazards to Humans and . **Domestic Animals**

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash hands thoroughly with soap and water after handling and before eating. drinking, chewing gum, using tobacco or using the toilet.

First Aid .

If Swallowed: Call a poison control center or doctor immediately 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 doctor. Do not give anything by mouth to an unconscious person. If in Eyes: 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.

Environmental Hazards •

Preparation Date: 25/March/2016 Revision Date: 25/March/2016

This pesticide is toxic to aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

Inventory			
Component	CAS	TSCA	
Diflubenzuron	35367-38-5	Yes	

United States

Environment

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

Diflubenzuron

35367-38-5

1.0 % de minimis concentration

Section 16 - Other Information

Revision Date

25/March/2016

Last Revision Date

25/March/2016

Preparation Date

25/March/2016

Disclaimer/Statement of

Liability

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.

Preparation Date: 25/March/2016 Revision Date: 25/March/2016

Format: GHS Language: English (US) OSHA HCS 2012



- FOR USE IN SWINE FEEDS AND SUPPLEMENTS AS PART OF AN INTEGRATED PEST MANAGEMENT PROGRAM TO CONTROL FLIES DEVELOPING IN MANURE
- CONTAINS DIFLUBENZURON FOR CONTINUOUS FEEDING DURING THE FLY SEASON
- STOPS THE DEVELOPMENT OF HOUSE FLIES IN THE MANURE OF TREATED SWINE INCLUDING NURSERY, GROW-FINISH AND BREEDING STOCK

ACTIVE INGREDIENT: Diflubenzuron [CAS# 35367-38-5]. 2.67% OTHER INGREDIENTS: .97.33% Total. .100.00% Contains 0.42 ounces (12.12 grams) of diflubenzuron per pound.

KEEP OUT OF REACH OF CHILDREN CAUTION

See additional Precautionary Statements

PRECAUTIONARY STATEMENTS – HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

	FIRST AID
if Swallowed	 Call a poison control center or doctor immediately 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 doctor. Do not give anything by mouth to an unconscious person.
If in Eyes	 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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For additional information on this pesticide product, including health concerns, medical emergencies, or pesticide incidents, you may call 1-800-347-8272, 24 hours per day, 7 days per week.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

ClariFly® Larvicide 267 inhibits the development of fly larvae in the manure of treated swine. When fed according to label directions, diflubenzuron prevents the emergence of house flies in the manure of treated swine. Start feeding ClariFly® Larvicide 267 early in the spring before house flies begin to appear and continue feeding throughout the summer and into the fall until cold weather restricts house fly activity.

This product is not effective against existing adult house flies. When starting a feeding program during the season, it is desirable to use other control measures to reduce the population of existing adult house flies.

In some cases, supplemental house fly control measures may be needed in and around swine barns to control adult house flies which can breed not only in swine manure, but in decaying vegetable matter or silage on the premises. In order to achieve optimum house fly control, use this product in conjunction with other good management and sanitation practices.

The dosage of **ClariFly® Larvicide 267** is proportional to the animal's body weight and must be offered daily throughout the entire house fly season. The following table gives dosage information.

Species	Daily Feeding Rate of DFB AI		
Swine - ClariFly® Larvicide 267 may be fed to swine		mg/cwl	
including nursery, grow-finish, and breeding stock with no withdrawal period. Use the higher inclusion rate for lighter weight pigs.		9.10 - 13.64	

ClariFly® Larvicide 267 is a specially formulated granular material for use in swine feeds. It is approved for use in supplements, complete feeds, concentrates, and premixes. It may also be used in liquid feeds when suspension agents are used to maximize the positional stability of the other feed ingredients.

Feed Mixing Directions - 0.20 mg/kg/day - 0.30 mg/kg/day
Use the following formula when mixing swine rations. Use the higher inclusion rate
for lighter weight pigs.
For a dosage of 0.20 mg/kg/day:

 $\frac{\text{CWT}}{\text{Consumption (lbs)}} \quad \text{X 1.5} = \quad \begin{array}{l} \text{Ibs of ClariFly}^{\textcircled{\$}} \text{ Larvicide 267 per} \\ \text{ton of product being manufactured} \end{array}$

For a dosage of 0.30 mg/kg/day:

 $\frac{\text{CWT}}{\text{Consumption (lbs)}} \quad \text{X 2.25} = \begin{array}{l} \text{lbs of } \textbf{ClariFly} \text{@ Larvicide 267 per} \\ \text{ton of product being manufactured} \end{array}$

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. **PESTICIDE STORAGE:** Keep this product in its tightly closed original container. Store in a cool, dry (preferably locked) area that is inaccessible to children and animals. **PESTICIDE DISPOSAL:** Wastes resulting from the use of this pesticide may be disposed of on site or at an approved waste disposal facility. **CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into mixing equipment. Offer for recycling if available, then dispose of empty bag in a sanitary landfill, or by other procedures approved by state and local authorities.

WARRANTY AND LIMITATION OF DAMAGES

Seller warrants that this material conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use and Buyer assumes the risk of any use contrary to such directions. Seller makes no other express or implied warranty of Fitness or of Merchantability, and no agent of Seller is authorized to do so except in writing and with specific reference to this warranty. To the extent consistent with applicable law, Seller's liability for any breach of warranty shall not exceed the purchase price of the material as to which claim is made.

For information or in case of emergency, contact 1-800-347-8272.

Manufactured for:

Central Garden & Pet Company 1501 East Woodfield Road, 200W Schaumburg, Illinois 60173 EPA Reg. No. 89459-82 EPA Est. No. 75806-AZ-1

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NET WT: 40 LBS