



SAFETY DATA SHEET

Trade name: Knock Out Gnats
Product No: 3440

Print date: 4/14/15

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Knock Out Gnats

Product Number: 3440

Product Use: Biological mosquito larvicide

EPA: 73049-56

Chemical Family: Not applicable; microbial product

Uses Advised Against: It is a violation of Federal law to use this product in a manner inconsistent with its FIFRA pesticide labeling.

Manufacturer Name and Address: Gardens Alive 230 Mary St., Greendale IN 47025

Emergency Phone Numbers: (513) 354-1483

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Not Classified

Labeling Elements

Symbol(s)

Symbols not required

Signal Word

WARNING

Hazard Statement(s)

None

Precautionary Statement:

Prevention

Avoid breathing dust, wear dust mask when handling .Wash thoroughly after handling .
Contaminated work clothing should not be allowed out of the workplace.
Wear protective clothing and eye protection



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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.

IF ON SKIN: Wash with soap and water. Take off contaminated clothing and wash it before reuse.

Disposal

Dispose of contents/container in accordance with local/regional/national regulations.

Safety

Avoid contact with skin and eyes

In case of contact with skin or eyes, rinse immediately w/ plenty of water.

Wear suitable protective clothing and eye protection

Other Hazards

None identified.

Routes of entry: Ingestion, skin, eyes and inhalation.

Inhalation: Not a hazard. Treat as a nuisance dust.

Skin Contact: Not a hazard.

Eye Contact: Not a hazard. Treat as a nuisance dust.

Ingestion: Not a hazard, unlikely.

Acute and Chronic Health Hazards: None, not a hazard.

Carcinogenicity?: NTP – N0
IARC – Monographs – No
OSHA Regulated - No

SECTION 3. HAZARDOUS INGREDIENTS / IDENTIFY INFORMATION

CAS#	Component Name	EC No.	Classification	Percent
None	Bacillus Thuringiensis Subsp. Israelensis, strain AM65-52		Not classified	37.4
Trade Secret	Other ingredients		Not classified	62.6



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SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

GENERAL: In all cases of doubt, seek medical attention.

EYES: Remove from source of exposure. Flush with copious amounts of water. Remove contact lenses, if present and easy to do, after the first 5 minutes, then continue rinsing. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic /supportive care as necessary.

SKIN: Remove from source of exposure. Take off contaminated clothing. Flush with copious amounts of water. If irritation occurs or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

INGESTION: Remove from source of exposure. Move person to fresh air. Do NOT induce vomiting. If signs of toxicity occur, seek medical attention. Provide symptomatic /supportive care as necessary.

INHALATION: Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary. If person is not breathing, call 911, then give artificial respiration.

Most important Symptoms and Effects, both Acute and Delayed

Acute

Possible eye and skin irritation

Delayed

No information on significant adverse effects

Indication of any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically and supportively

SECTION 5: FIREFIGHTING MEASURES

Extinguisher Media

Suitable Extinguisher Media

Dry chemical, water spray, foam or carbon dioxide. Use appropriate medium for the underlying cause of the fire.

Unsuitable Extinguisher Media

None known



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Specific Hazards Arising from the Chemical

Thermal decomposition products

Carbon oxides, nitrogen oxides

Advice to Firefighters

Protective Equipment and precautions for firefighters

Fire fighter should wear full-face, self-contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling combustion products. See Section 8 (Exposure Controls / Personal Protection)

Fire & Explosive hazard

Not expected to be flammable.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

For respiratory protection wear a dust mask. Wear eye protection appropriate to handling activities. Wear impervious gloves. See personal protection as recommended in Section 8.

Environmental Precautions

Dispose of excess product and washwaters according to local regulations.

Methods and Materials for Containment and Cleaning Up

Wear appropriate personal protective equipment. Sweep up material and place in appropriate container for disposal. Avoid generating dust.

Reference to Other Sections

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations. See Section 13 for Disposal Considerations.

US Regulations may require reporting spills of hazardous materials: See Section 15: REGULATORY INFORMATION for details on reportable quantities, if any.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe handling

For respiratory protection wear a dust mask. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Do not eat, drink, chew gum or smoke while working with product, obey reasonable safety precautions and practice good housekeeping.

Conditions for Safe Storage, Including Incompatibilities

Protect against physical damage. Keep in original containers. Close containers of unused material. Store in a dry, cool place.

Incompatibilities

None Known

Specific End Use(s)

Pesticide, biological mosquito larvicide



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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Component Exposure Limits

None

Derived No Effect Levels (DNELs)

No DNELs available

Predicted No Effect Concentrations (PNECs)

No PNECs available

Exposure Controls

Appropriate Engineering Controls

Provide general ventilation.

SKIN PROTECTION:

Wear protective clothing, including boots and gloves. For filling operations if dust/mist is produced wear a dust mask. Wear gloves made of impervious materials. Wash thoroughly with soap and water after handling.

EYE PROTECTION:

Wear goggles, safety glasses with side shields.

RESPIRATORY PROTECTION:

Where respiratory protection is warranted, use dust/mist filtering respirator (MSHA/NIOSH approved number prefix TC-21C or a NIOSH approved respirator with any N, P, R or HE filter during application procedures or when repeat exposure is expected.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic

Physical and Chemical

Properties Appearance/Odor:

Appearance:	Brown fine granules	Odor :	Musty odor
pH:	5.8 (10% dispersion in water)	Boiling Point:	Not Determined
Melting Point:	Not Applicable	Solubility (H ₂ O):	Suspends and partially soluble
Specific Gravity:	Not Determined	Bulk Density:	0.36 g/ml
Octanol/H ₂ O Coeff:	Not Determined	Evaporation Rate:	Not Determined
Molecular Weight:	Not Applicable	Decomposition Temp.:	Not Determined
Auto Ignition:	Not Determined	LFL:	Not Determined
Flash Point:	Not Determined	UFL:	Not Determined



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Vapor Density:	Not Determined	Vapor Pressure:	Not Applicable
VOC:	Not Determined	Flammability Class:	None of the components are classified as flammable or highly flammable, it can be concluded that the preparation itself will not be classified as highly flammable.
Kinematic Viscosity:	Not Determined		

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Material does not pose a significant reactivity hazard.

Chemical Stability

Stable under ordinary conditions of use and storage. Spontaneous reaction not possible.

Possibility of Hazardous Reactions

Does not undergo hazardous polymerization

Conditions to Avoid

None known

Incompatible Materials

None known

Hazardous Decomposition Products

Carbon oxides and unidentified organic compounds

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

LIKELY ROUTES OF EXPOSURE

Eye Contact:	Yes
Skin Contact:	Yes
Ingestion:	No
Inhalation:	No

ACUTE EFFECTS Product Toxicology Studies (Data for product)

ORAL TOXICITY: LD₅₀ > 5,000 mg/kg (rat)

DERMAL TOXICITY: LD₅₀ > 5,000 mg/kg (rabbit)

INHALATION TOXICITY: LC₅₀ > 0.014 mg/L air (rat- nose only; maximum feasible concentration)

CORROSIVENESS: Not corrosive.



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DERMAL IRRITATION: Weakly irritating

OCULAR IRRITATION: Mildly irritating

DERMAL SENSITIZATION: Not a sensitizer (guinea pig)

MUTAGENICITY INFORMATION: Components of this product are not listed as mutagens.

CARCINOGENICITY INFORMATION: Components of this product are not listed as carcinogenic by NTP, IARC or OSHA.

DEVELOPMENTAL/REPRODUCTIVE TOXICITY: This material is not pathogenic

SPECIAL TARGET ORGAN EFFECTS: Eye and mucus membrane Irritation.

ASPIRATION HAZARD: Not Applicable

REPEAT DOSE STUDIES: Not Applicable, Pathogenicity Toxicity testing was all negative

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity (Data for a Concentrated Technical Powder)

Fish: LC₅₀ >370 mg/L (96-H, Rainbow Trout)

Bird: LC₅₀ >3077 mg /kg (6.2 x 10¹¹ cfu/kg) (Acute Oral - Bobwhite Quail)

LC₅₀ >3077 mg /kg (6.2 x 10¹¹ cfu/kg) each day for 5 days (Sub-Acute Oral (dietary) - Bobwhite Quail)

Invertebrates: EC₅₀ >50 mg/L (48-H) (Daphnia)

Bees: Essentially nontoxic to honey bees

Persistence and Degradability

No data available

Bioaccumulation potential

Not applicable. Substance is not pathogenic to non-target organisms

Mobility in Soil

No data available

Results of PBT and vPvB assessment

Assessments not performed

Other adverse effects

None known



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SECTION 13: DISPOSAL CONSIDERATION

Waste Disposal Methods

Dispose of product in accordance with federal, state, provincial, and local regulations. Prevent contamination of environment by wastes.

US EPA WASTE NUMBER & DESCRIPTIONS:

There is no applicable EPA waste number. This product, if discarded, is not expected to be a characteristic or listed hazardous waste.

SECTION 14: TRANSPORT INFORMATION

DOT STATUS: Not Regulated as Hazardous by DOT

UN PROPER SHIPPING NAME: ()

HAZARD CLASS:

UN NUMBER:

PACKING GROUP:

MARINE POLLUTANT:

FREIGHT CLASSIFICATION: Insecticide, N.O.S.

IATA/ICAO STATUS: Not Regulated

PROPER SHIPPING NAME: ()

HAZARD CLASS:

UN NUMBER:

PACKING GROUP:

REPORTABLE QUANTITY:

IMO STATUS: Not Regulated

PROPER SHIPPING NAME: ()

HAZARD CLASS:

UN NUMBER:

PACKING GROUP:

REPORTABLE QUANTITY:

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations / Specific Legislation

TSCA STATUS: Exempt

CERCLA STATUS: Not regulated as hazardous

SARA STATUS: Acute: No Chronic: No Fire: No CDT: No

RCRA STATUS: Not regulated as hazardous

State Right-To-Know: Not Listed

Consult applicable national, state provincial or local laws to determine regulations, laws or ordinances which may be applicable.

OSHA HAZARD COMMUNICATION STANDARD: Not defined by the OSHA Hazard Communication Standard, 29 CFR

15.2 EPA Pesticide Regulations

EPA Registration Number: 73049-56

EPA Pesticide Label signal word: CAUTION



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Product must have EPA Approved Pesticide Label attached to or accompanying all containers. 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 and limitations for its use.

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful if inhaled. Avoid breathing dust. Remove contaminated clothing and wash before reuse. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

Personal Protective Equipment:

Applicators and other handlers must wear: Long-sleeved shirt and long pants, water proof gloves, and shoes plus socks.

Mixer/loaders and applicators not in enclosed cabs or aircraft must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95 or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations:

Users should wash hands before eating, drinking, chewing gum, using tobacco products or using the toilet.

ENVIRONMENTAL HAZARDS

Do not apply directly to treated finished drinking water reservoirs or drinking water receptacles when water is intended for human consumption.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Storage: Store in cool [59-86°F (15-30°C)], dry place.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal:

Plastic Container: Nonrefillable container. Do not reuse or refill this container.

Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling if available, or



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puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Paper bag: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Offer for recycling, if available. If recycling is not available dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

SECTION 16: OTHER INFORMATION

NFPA Hazard Ratings

Health: 1

Flammability: 0

Instability: 0

HMIS Hazard Ratings

Health: 1

Flammability: 0

Instability: 0

0 = Minimal

1 = Slight

2 = Moderate

3 = Serious

4 = Extreme

MANUFACTURER DISCLAIMER: The information contained herein is, to the best of the manufacturer's knowledge and belief, accurate and reliable as of the date of the preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and the manufacturer shall not be liable for any loss or damage arising out of the use thereof. In addition, the manufacturer shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

NOTICE: How this product is used is very important and beyond the control of the seller. The buyer assumes all risks for any use beyond those described on the label or for any use under abnormal conditions.