

GardenTech Over' n Out! Advanced Fire Ant Killer

Safety Data Sheet

Date of issue: 10/18/2019 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : GardenTech Over' n Out! Advanced Fire Ant Killer
Synonyms : EPA Reg. No.: 279-3344-71004

1.2. Recommended use and restrictions on use

Recommended use : Insecticide.
Restrictions on use : Keep out of reach of children. Avoid contact with eyes, skin or clothing. Avoid breathing dust. Do NOT take internally.

1.3. Supplier

TechPac, LLC.
1000 Parkwood Circle , Suite 700
Atlanta, GA 30339 - United States

General Product Information: 1-866-945-5033 - Monday - Friday 8am - 5pm CST
www.gardentech.com

1.4. Emergency telephone number

Emergency number : 1-800-420-9347 (Medical emergencies, human or animal)
1-800-424-9300 – CHEMTREC (Transportation related emergencies)
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

Acute toxicity (oral) Category 4	Harmful if swallowed
Acute toxicity (inhalation) Category 4	Harmful if inhaled
Serious eye damage/eye irritation Category 2B	Causes eye irritation
Carcinogenicity Category 2	Suspected of causing cancer

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



GHS07

GHS08

Signal word (GHS US) : Warning
Hazard statements (GHS US) : Harmful if swallowed or if inhaled
Causes eye irritation
Suspected of causing cancer
Precautionary statements (GHS US) : Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Wash hands, forearms and face thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Call a poison center or doctor if you feel unwell.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If exposed or concerned: Get medical advice/attention.
Call a poison center or doctor if you feel unwell.
Rinse mouth.
If eye irritation persists: Get medical advice/attention.

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Store locked up.
Dispose of contents/container to in accordance with local/regional/national/international regulations.

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : This pesticide is extremely toxic to fish, aquatic invertebrates, oysters and shrimp. 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

Name	Product identifier	%
Bifenthrin	(CAS-No.) 82657-04-3	0.2
Zeta-cypermethrin	(CAS-No.) 52315-07-8	0.05
Cellulose	(CAS-No.) 9004-34-6	< 1
Non-hazardous and/or does not meet criteria for classification	(CAS-No.) N/A	Balance

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)

Symptoms/effects after inhalation : Harmful if inhaled.

Symptoms/effects after eye contact : Causes mild eye irritation.

Symptoms/effects after ingestion : Harmful if swallowed.

Chronic symptoms : May cause cancer.

4.3. Immediate medical attention and special treatment, if necessary

This product is a pyrethroid. If large amounts have been ingested, the stomach and intestine should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided. Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Avoid heavy hose streams.

5.2. Specific hazards arising from the chemical

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Do not allow fire fighting water to escape into waterways or sewers. Do not use direct stream of water. A direct stream of water may spread fire. Ventilate closed spaces before entering. Do not breathe gas/fumes/vapor/spray. Keep unauthorized personnel away.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapors/spray.

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 : Avoid dust formation. Do NOT wash away into sewer. Avoid release to the environment. Evacuate unnecessary personnel. Stay upwind. Stop release. Ventilate area. Wear appropriate personal protective equipment, avoid direct contact.

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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not handle until all safety precautions have been read and understood. 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 contact with skin and eyes.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. 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. Avoid humid, wet or moist conditions. Store in a dry place. Keep container tightly closed. Keep only in original container. Avoid excess heat. Store locked up.

Incompatible materials : Strong oxidizers.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Cellulose (9004-34-6)		
ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³
ACGIH	Remark (ACGIH)	NA URT irr
OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)
NIOSH	NIOSH REL (TWA) (mg/m ³)	10 mg/m ³ (total dust) 5 mg/m ³ (respirable dust)

8.2. Appropriate engineering controls

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

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

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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

Physical state	: Solid
Appearance	: Gray granule
Color	: Gray
Odor	: Mild detergent
Odor threshold	: No data available
pH	: 7.15 @ 22.1°C (1% suspension in water)
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
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	: No data available
Bulk density	: 46.78 lbs/ft3 (loose) 54.40 lbs/ft3 (tapped)
Solubility	: Insoluble
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	: Not explosive
Oxidizing properties	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hazardous polymerization will not occur.

10.4. Conditions to avoid

Avoid dust formation. Excessive heat.

10.5. Incompatible materials

Strong oxidizing agents.

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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

GardenTech Over' n Out! Advanced Fire Ant Killer	
LD50 oral	> 727.3 mg/kg (Based on a similar product)
LD50 dermal rat	> 5000 mg/kg (Based on a similar product)
LC50 inhalation rat (mg/l)	2.11 mg/l/4h (Based on a similar product)

GHS-US Properties	Classification
Acute toxicity (oral)	Harmful if swallowed.
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Harmful if inhaled.
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Causes eye irritation.
Respiratory or skin sensitization	Not classified
Germ cells mutagen	Not classified
Carcinogenicity	Suspected of causing cancer.
Reproductive toxicity	Not classified
Specific target organ toxicant (single exposure)	Not classified
Specific target organ toxicant (repeated exposure)	Not classified
Aspiration hazard	Not classified

Potential health effects

General

- Acute** : On contact, bifenthrin can cause feelings of burning, tingling or numbness in exposed areas (paraesthesia), which is harmless at low exposure, but can be quite painful, especially in the eye. The effect may result from splash, aerosol or transfer from contaminated gloves. The effect is transient, lasting up to 24 hours, but may in exceptional cases last longer. It may be considered as a warning that overexposure has occurred and that work practice should be reviewed.
- Chronic** : Bifenthrin: Long-term exposure caused neurotoxicity (tremors and impaired gait) in the early exposure in animal studies, but tremors disappeared with continued exposure.

Inhalation

- Acute** : Harmful if inhaled.

Skin

- Acute** : Bifenthrin can cause feelings of burning, tingling or numbness in exposed areas (paraesthesia).

Eye

- Acute** : Bifenthrin can cause feelings of burning, tingling or numbness in exposed areas (paraesthesia). Causes mild eye irritation.

Ingestion

- Acute** : Harmful if swallowed.

- Mutagenicity** : Not classified.

- Carcinogenicity** : Bifenthrin: suspected of causing cancer. Zeta-cypermethrin: suspected of causing cancer.

- Reproductive Effects** : Not classified.

SECTION 12: Ecological information

12.1. Toxicity

Bifenthrin (82657-04-3)	
LC50 Acute fish 1	0.00035 mg/l (Exposure time: 96h - Bluegill sunfish)
LC50 Acute fish 2	0.00015 mg/l (Exposure time: 96h - Rainbow trout)
LC50 Acute crustacea 1	0.000004 mg/l (Exposure time: 96h - Mysid shrimp)
LC50 Acute crustacea 2	0.0016 mg/l (Exposure time: 48h - Daphnia magna)

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Zeta-cypermethrin (52315-07-8)	
LC50 Acute fish 1	0.00039 mg/l (Exposure time: 96h - Rainbow trout)
LC50 Acute fish 2	0.00095 (Exposure time: 96h - Sheepshead minnow)
LC50 Acute crustacea 1	0.00000475 mg/l (Exposure time: 96h - Mysid shrimp)
LC50 Acute crustacea 2	0.0000036 mg/l (Exposure time: 48h - Hyalella Azteca)
NOEC Chronic fish 1	0.00014 mg/l (Fathead minnow)
NOEC Chronic crustacea 1	0.00000078 mg/l (Mysid shrimp)

12.2. Persistence and degradability

Bifenthrin (82657-04-3)	
Persistence and degradability	Bifenthrin: Moderately persistent. Does not readily hydrolyze. Not readily biodegradable.

Zeta-cypermethrin (52315-07-8)	
Persistence and degradability	Zeta-cypermethrin: Non-persistent. Readily hydrolyzed. Not readily biodegradable.

12.3. Bioaccumulative potential

Bifenthrin (82657-04-3)	
Bioaccumulative potential	Bifenthrin: has a potential for bioconcentration.

Zeta-cypermethrin (52315-07-8)	
Bioaccumulative potential	Zeta-cypermethrin: The substance does not have a potential for bioconcentration.

12.4. Mobility in soil

Bifenthrin (82657-04-3)	
Mobility in soil	Bifenthrin: Immobile. Not expected to reach groundwater

Zeta-cypermethrin (52315-07-8)	
Mobility in soil	Zeta-cypermethrin: Immobile; Not expected to reach groundwater.

12.5. Other adverse effects

GardenTech Over' n Out! Advanced Fire Ant Killer	
Ecological Fate	This pesticide is extremely toxic to fish, aquatic invertebrates, oysters and shrimp.

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

	UN number	Proper Shipping Name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	Not regulated	Not regulated	Not regulated	Not regulated	Not applicable
IMDG	UN3077	Packaging greater than 5 kg: Environmentally hazardous substance, solid, n.o.s. (Bifenthrin, Zeta-cypermethrin)	9	III	Marine pollutant
IATA	UN3077	Packaging greater than 5 kg: Environmentally hazardous substance, solid, n.o.s. (Bifenthrin, Zeta-cypermethrin)	9	III	Acute aquatic toxicity

SECTION 15: Regulatory information

15.1. US Federal regulations

Bifenthrin (82657-04-3)	
Subject to reporting requirements of United States SARA Section 313	
SARA Section 313 - Emission Reporting	1 %

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Cellulose (9004-34-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
FIFRA Labelling	
EPA Registration Number	279-3344-71004
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 Precautionary Statement	KEEP OUT OF REACH OF CHILDREN.
FIFRA Hazards to Humans and Domestic Animals	Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear long-sleeved shirt and long pants, socks and gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
FIFRA First Aid	If swallowed: Call 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. NOTE TO PHYSICIAN: This product is a pyrethroid. If large amounts have been ingested, the stomach and intestine should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.
FIFRA Environmental Hazards	This pesticide is extremely toxic to fish, aquatic invertebrates, oysters and shrimp. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Sweeping any product that lands on a driveway, sidewalk, or street, back onto the treated area of the lawn or garden will help to prevent run off to water bodies or drainage systems. Do not apply when weather conditions favor drift from treated areas. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas.

15.2. US State regulations

No additional information available

SECTION 16: Other information

Date of issue : 18 October 2019

SDS US (GHS HazCom 2012) - CGP

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