# TechPac, LLC.

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier Product Name	GardenTech Over' n Out! Advanced Fire Ant Killer	
Other means of identification EPA Registration No.	279-3344-71004	
Synonyms	BIFENTHRIN: (2-methyl[1,1'-biphenyl]-3-yl)methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate (CAS name); 2-methylbiphenyl-3-ylmethyl (Z)-(1RS)-cis-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate (IUPAC name); ZETA-CYPERMETHRIN: (+/-)-α -cyano(3-phenoxyphenyl)methyl (+/-) cis,	
	trans-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate (CAS name); (RS)- α -cyano-3-phenoxybenzyl (1RS)-cis-trans-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate (IUPAC name)	
Active Ingredient(s)	Bifenthrin, Zeta-cypermethrin	
Chemical Family	Pyrethroid Pesticide	
Recommended use of the chemica	al and restrictions on use	
Recommended Use:	Insecticide	
Restrictions on Use:	Use as recommended by the label	
<u>Manufacturer Address</u>	TechPac, LLC. 1000 Parkwaywood Circle Suite 700 Atlanta, GA 30339	
Emergency telephone number	Emergency Telephone Number (24 hr/7days) 1-800-420-9347 Product Information: 1-866-945-5033 SDS Information or Request: 1-866-945-5033	
	2 HAZARDS IDENTIFICATION	

**Classification** 

#### **OSHA Regulatory Status**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin sensitization	Category 1B
Carcinogenicity	Category 1A

#### GHS Label elements, including precautionary statements

#### EMERGENCY OVERVIEW

# Danger Hazard Statements H302 - Harmful if swallowed H317 - May cause an allergic skin reaction H332 - Harmful if inhaled H350 - May cause cancer

#### **Precautionary Statements - Prevention**

P202 - Do not handle until all safety precautions have been read and understood

- P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
- P264 Wash face, hands and any exposed skin thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P272 Contaminated work clothing should not be allowed out of the workplace
- P280 Wear protective gloves

P281 - Use personal protective equipment as required

#### **Precautionary Statements - Response**

P308 + P313 - IF exposed or concerned: Get medical advice/ attention

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap

- P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention
- P363 Wash contaminated clothing before reuse
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

P330 - Rinse mouth

#### **Precautionary Statements - Storage**

P405 - Store locked up

# Precautionary Statements - Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

No hazards not otherwise classified were identified.

#### Other Information

Very toxic to aquatic life with long lasting effects

#### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### **Chemical Family**

Pyrethroid Pesticide.

**Chemical name** 

SDS # : Revision date: 2015-04-13 Version 1.01

		Versien 1.81
Bifenthrin	82657-04-3	0.2
Zeta-cypermethrin (F2700)	52315-07-8	0.05
bentonite	1302-78-9	85-100
crystalline silica, quartz	14808-60-7	5-10
Hexylene Glycol	107-41-5	1-10

Synonyms are provided in Section 1.

	4. FIRST AID MEASURES				
Eye Contact	Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.				
Skin Contact	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.				
Inhalation	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor fo further treatment advice.				
Ingestion	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.				
Most important symptoms and effects, both acute and delayed	Allergic skin reactions.				
Indication of immediate medical attention and special treatment needed, if necessary	Treat symptomatically. This product is a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.				
	5. FIRE-FIGHTING MEASURES				
Suitable Extinguishing Media	Foam. Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Water spray or fog.				
Specific Hazards Arising from the Chemical	Powdered material may form explosive dust-air mixtures				
<u>Explosion data</u> Sensitivity to Mechanical Impact Sensitivity to Static Discharge	Not sensitive. Not sensitive.				
Protective equipment and precautions for firefighters	As in any fire, wear self-contained breathing apparatus and full protective gear. Isolate fire area. Evaluate downwind.				
	6. ACCIDENTAL RELEASE MEASURES				
Personal Precautions	Isolate and post spill area. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8.				
Other	For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.				
Environmental Precautions	Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains.				
Methods for Containment	Sweep up and shovel into suitable containers for disposal.				

Methods for cleaning up

Clean and neutralize spill area, tools and equipment by washing with bleach water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.

#### 7. HANDLING AND STORAGE

Handling	Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.
Storage	Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Keep/store only in original container.
Incompatible products	None known

Incompatible products

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
bentonite 1302-78-9	TWA: 1 mg/m <sup>3</sup>	-	-	-
crystalline silica, quartz 14808-60-7	TWA: 0.025 mg/m <sup>3</sup>	See note	IDLH: 50 mg/m <sup>3</sup> TWA: 0.05 mg/m <sup>3</sup>	Mexico: TWA 0.1 mg/m <sup>3</sup>
Hexylene Glycol 107-41-5	Ceiling: 25 ppm	-	Ceiling: 25 ppm Ceiling: 125 mg/m <sup>3</sup>	Mexico: Ceiling 25 ppm Mexico: Ceiling 125 mg/m <sup>3</sup>
Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
bentonite 1302-78-9	TWA: 1.0 mg/m <sup>3</sup>	-	TWA: 1 mg/m <sup>3</sup>	-
crystalline silica, quartz 14808-60-7	TWA: 0.025 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.10 mg/m <sup>3</sup>	TWA: 0.025 mg/m <sup>3</sup>
Hexylene Glycol 107-41-5	Ceiling: 25 ppm	Ceiling: 25 ppm Ceiling: 121 mg/m <sup>3</sup>	CEV: 25 ppm	Ceiling: 25 ppm Ceiling: 121 mg/m <sup>3</sup>

#### Appropriate engineering controls

Apply technical measures to comply with the occupational exposure limits. Ensure **Engineering measures** adequate ventilation, especially in confined areas. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Individual protection measures, such as personal protective equipment **Eye/Face Protection** If there is a potential for exposure to particles which could cause eye discomfort, wear

chemical goggles.

Wear long-sleeved shirt, long pants, socks, and shoes. **Skin and Body Protection** 

Protective gloves **Hand Protection** 

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved **Respiratory Protection** respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene measures** Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household laundry.

If the product is used in mixtures, it is recommended that you contact the appropriate **General information** protective equipment suppliers These recommendations apply to the product as supplied

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Appearance	Granules
Physical State	Solid
Color	Gray
Odor	Mild detergent odor
Odor threshold	No information available
рН	7.33
Melting point/freezing point	Not applicable
Boiling Point/Range	No information available
Flash point	Not applicable
Evaporation Rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	No information available
Vapor density	No information available
Density	No information available
Specific gravity	No information available
Water solubility	Dispersible in water
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity, kinematic	No information available
Viscosity, dynamic	No information available
Explosive properties	No information available
Oxidizing properties	No information available
Molecular weight	No information available
Bulk density	55.43 lb/cu ft
-	

# **10. STABILITY AND REACTIVITY**

Reactivity	Not applicable
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing.
Hazardous polymerization	Hazardous polymerization does not occur.
Conditions to avoid	Heat, flames and sparks
Incompatible materials	None known.

Hazardous Decomposition Products None known based on information supplied.

#### **11. TOXICOLOGICAL INFORMATION**

#### Product Information

LD50	Oral
LD50	Dermal
LC50	Inhalation

Serious eye damage/eye irritation Skin corrosion/irritation Sensitization

550 mg/kg (rat) > 5000 mg/kg (rabbit) > 2.11 mg/L (rat) 4 hr

Mildly irritating. May cause slight irritation. Sensitizer.

#### Information on toxicological effects

Symptoms	Symptoms of	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.					
Delayed and immediate e	effects as well as chronic	effects from short and	long-term exposure				
Chronic toxicity	exposure in a Zeta-cyperme	Bifenthrin: Long-term exposure caused neurotoxicity (tremors and impaired gait) in the early exposure in animal studies, but tremors disappeared with continued exposure. Zeta-cypermethrin: Long-term exposure caused neurotoxicity (body tremors, decreased motor activity), decreased body weight and increased liver and spleen weight.					
Mutagenicity Carcinogenicity	Bifenthrin: We tumors (lesion mice, but not	Bifenthrin, Zeta-cypermethrin: Not genotoxic in animal studies. Bifenthrin: Weak treatment-related response for liver adenocarcinomas and benign bladder tumors (lesion) in male mice. Cypermethrin caused an increase in benign lung tumors in mice, but not in rats. EPA has classified cypermethrin as a possible human carcinogen based on this information, but does not regulate based on its low cancer risk.					
Neurological effects	Bifenthrin: Ca salivation) fol exposure Zet	Bifenthrin: Causes clinical signs of neurotoxicity (tremors, impaired gait, excessive salivation) following acute or subchronic exposure. Tremors disappeared with continued exposure Zeta-cypermethrin: Causes neurotoxicity (tremors and decreased motor activity) following acute, subchronic, or chronic exposure.					
Reproductive toxicity		ta-cypermethrin: No toxici		al studies.			
Developmental toxicity		ta-cypermethrin: Not terat					
STOT - single exposure	Not classified	I	-				
STOT - repeated exposu	re Not classified	1.					
Target organ effects	Bifenthrin: Ce blood.	Bifenthrin: Central Nervous System (CNS), Zeta-cypermethrin: Central Nervous System, blood.					
Neurological effects	salivation) fol exposure. Ze	Bifenthrin: Causes clinical signs of neurotoxicity (tremors, impaired gait, excessive salivation) following acute or subchronic exposure. Tremors disappeared with continued exposure. Zeta-cypermethrin: Causes neurotoxicity (tremors and decreased motor activity) following acute, subchronic, or chronic exposure.					
Aspiration hazard	No informatio	n available.					
Chemical name	ACGIH	IARC	NTP	OSHA			
crystalline silica, quartz 14808-60-7	A2	Group 1	Known	X			

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Bifenthrin (82657-04-3)					
Active Ingredient(s)	Duration	Species	Value	Units	
Bifenthrin	96 h LC50	Fish	0.1	µg/L	
	72 h EC50	Algae	0.822	mg/L	
	48 h EC50	Crustacea	0.11	µg/L	
	21 d NOEC	Fish	0.012	µg/L	
	21 d NOEC	Crustacea	0.0013	µg/L	

Zeta-cypermethrin (F2700) (52315-07-8)						
Active Ingredient(s)	Duration	Species	Value	Units		
Zeta-cypermethrin	48 h EC50	Crustacea	0.14	µg/L		
	96 h LC50	Fish	0.69	µg/L		
	72 h EC50	Algae	>1	mg/L		
	21 d NOEC	Crustacea	0.01	µg/L		
	21 d NOEC	Fish	0.015	µg/L		

Persistence and degradability

Bifenthrin: Moderately persistent. Does not readily hydrolyze. Not readily biodegradable. Zeta-cypermethrin: Non-persistent. Readily hydrolyzed. Not readily biodegradable.

Bioaccumulation	Version1.01Bifenthrin: The substance has a potential for bioconcentration. Zeta-cypermethrin: The substance does not have a potential for bioconcentration.Bifenthrin. Zeta-cypermethrin: Immobile; Not expected to reach groundwater.				
Mobility					
-	13. DISPOSAL CONSIDERATIONS				
Waste disposal methods	Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance.				
Contaminated Packaging	Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions.				
	14. TRANSPORT INFORMATION				
DOT	Not regulated for transportation if shipped in Non Bulk packaging. The classification below pertains to the shipment in Bulk packaging.				
UN/ID no Proper Shipping Name Hazard class Packing Group Marine Pollutant Description	UN3077 Environmentally hazardous substance, solid, n.o.s. 9 III Zeta-cypermethrin. UN3077 Environmentally hazardous substances, solid, n.o.s.(Bifenthrin, Zeta-cypermethrin), 9 PG III				
TDG UN/ID no Proper Shipping Name Hazard class Packing Group Marine Pollutant Description	UN3077 Environmentally hazardous substance, solid, n.o.s. 9 III Bifenthrin, Zeta-cypermethrin. UN3077 Environmentally hazardous substances, solid, n.o.s.(Bifenthrin, Zeta-cypermethrin), 9 PG III				
ICAO/IATA UN/ID no Proper Shipping Name Hazard class Packing Group Description Limited quantity	UN3077 Environmentally hazardous substance, solid, n.o.s. 9 III UN3077 Environmentally hazardous substances, solid, n.o.s.(Bifenthrin, Zeta-cypermethrin), 9 PG III 30 kg G				
IMDG/IMO UN/ID no Proper Shipping Name Hazard class Packing Group EmS No. Marine Pollutant Description	UN3077 Environmentally hazardous substance, solid, n.o.s. 9 III F-A, S-F Bifenthrin, Zeta-cypermethrin UN3077 Environmentally hazardous substances, solid, n.o.s.(Bifenthrin, Zeta-cypermethrin), 9 PG III				

## **15. REGULATORY INFORMATION**

# U.S. Federal Regulations

#### <u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical name	CAS-No	Weight %	SARA 313 - Threshold Values %
Bifenthrin - 82657-04-3	82657-04-3	0.8	1.0

#### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic health hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### FIFRA Information

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

#### CAUTION

Harmful if swallowed. Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

This pesticide is extremely toxic to fish, aquatic invertebrates, oysters and shrimp.

# US State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals:.

Chemical name	California Prop. 65		
crystalline silica, quartz - 14808-60-7	Carcinogen		

#### U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

#### International Inventories

Component	TSCA (United States)	DSL (Canada)	EINECS/ELI NCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Bifenthrin 82657-04-3 ( 0.2 )				Х	Х	Х		

Zeta-cypermethrin (F2700) 52315-07-8 ( 0.05 )			Х		Х	Х	Х	Х
bentonite 1302-78-9 ( 80-90 )	Х	Х	Х		Х	Х	Х	Х
crystalline silica, quartz 14808-60-7(5-10 )	Х	Х	Х	Х	Х	Х	Х	Х
Hexylene Glycol 107-41-5 ( 1-5 )	Х	Х	Х	Х	Х	Х	Х	Х

#### Mexico - Grade

Moderate risk, Grade 2

**WHMIS Hazard Class** 

D2A - Very toxic materials D2B - Toxic materials



# **16. OTHER INFORMATION**

NFPA	Health Hazards 2	Flammability 1	Instability 0	Special Hazards -
HMIS	Health Hazards 2*	Flammability 1	Physical hazard 0	Personal Protection X

\*Indicates a chronic health hazard.

#### **Disclaimer**

TechPac, LLC. believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specified product designated and may not be applicable where such product is used in combination with any other materials or in any process. Use of this product is regulated by the U.S. Environmental Protection Agency (EPA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Further, since the conditions and methods of use are beyond the control of TechPac, LLC. , TechPac, LLC. expressly disclaims any and all liability as to any results obtained or arising from any use of the products or reliance on such information.