

# PUNISHER™

## SAFETY DATA SHEET

EMERGENCY CALL: 1-800-424-9300 (CHEMTREC)

### 1. IDENTIFICATION

**PRODUCT NAME:** Punisher  
**DESCRIPTION:** Liquid insecticide  
**EPA REG. NO.:** 91234-92  
**COMPANY IDENTIFICATION:** Atticus, LLC  
940 NW Cary Parkway, Suite 200  
Cary, NC 27513

### 2. HAZARD IDENTIFICATION

#### DANGER

Toxic if swallowed (H301)  
May be fatal if swallowed and enters airways (H304)  
Causes eye irritation (H320)  
Suspected of causing cancer (H351)  
Very toxic to aquatic life with long lasting effects (H400+H410)



#### HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Acute toxicity, oral	3	None	-
Aspiration hazard	1		
Serious eye damage / eye irritation	2B	<b>Environmental Hazards</b>	<b>Category</b>
Carcinogenicity	2	Hazardous to the Aquatic Environment – Chronic (long-term)	1
		Hazardous to the Aquatic Environment – Acute (short-term)	1

#### HAZARDS NOT REQUIRING CLASSIFICATION

Do not mix or allow coming in contact with oxidizing agent. Hazardous chemical reaction may occur.

#### PRECAUTIONARY STATEMENTS

Obtain, read and follow all safety instructions before use. Wear protective clothing as specified in Section 8 of this document. (P203+P280)

Wash hands and skin thoroughly after handling. Do not eat, drink or smoke when using this product. (P264+P270)

**IF SWALLOWED:** Get emergency medical help immediately. Specific treatment: see Section 4 of this document. Rinse mouth. Do NOT induce vomiting. (P301+P316+P321+P330+P331)

**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 help. (P305+P351+P338+P337+P317)

Store locked up. (P405)

IF exposed or concerned, get medical advice. (P318)

Avoid release to the environment not in accordance with the product label. (P273)

Collect spillage. (P391)

Dispose of contents / container using instructions in the product label and in accordance with local / Federal regulations. (P501)

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS #	Composition
Acetamiprid	(1E)-N-[(6-chloro-3-pyridinyl)methyl]-N'-cyano-N-methylethanimidamide	135410-20-7	13.0%
Bifenthrin	(2-methyl[1,1'-biphenyl]-3-yl)methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate	82657-04-3	10.0%

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

### 4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall® at 1-844-685-9173, 24 hours per day, 7 days per week for emergency medical treatment information. For chemical emergency: spill, leak, fire, exposure or accident, call CHEMTREC: 1-800-424-9300.

**IF SWALLOWED:** Immediately call a poison control center or doctor for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. 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.

**Notes to Physician:** This product contains 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. Contains petroleum distillates. May pose an aspiration pneumonia hazard.

### 5. FIREFIGHTING MEASURES

**Flash Point:** >91°C

**Fire and Explosion Hazards:** No data available

**Extinguishing Medium:** Water spray, foam, dry chemical, or carbon dioxide (CO<sub>2</sub>). Avoid high volume water jet to prevent environmental damage from excessive water runoff.

**Fire Fighting Equipment:** Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear.

## 5. FIREFIGHTING MEASURES (CONT.)

**Fire Fighting Instructions:** Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water / firefighting water; do not allow to enter drains or waterways. Use foam or dry chemical fire extinguishing systems to prevent environmental damage from excessive water runoff.

**Hazardous Combustion Products:** None known

**NFPA Ratings:** Health – 2 / Flammability – 1 / Reactivity – 0

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Isolate area and keep unnecessary and un-protected personnel from entering. Wear suitable personal protective clothing and equipment as described in Section 8 of this document.

**Environmental Precautions:** Prevent material from entering any waterways or low areas. Do not flush to drain or soil. Contain contaminated water. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**Spill Cleanup:** Clean up spill immediately, observing precautions in Section 8. Prevent further leakage or spillage if safe to do so. For small spills: absorb spill with sand, clay or other inert material. For large spills: recover free product and dike for later disposal. Absorb remaining spill with inert material and place in suitable container for disposal. Prevent material from entering sewers, waterways, or low areas. Dispose of in accordance with local regulations.

## 7. HANDLING AND STORAGE

**Handling:** Avoid contact with eyes, skin or clothing. Avoid breathing vapors or spray mist. Wear protective eyewear. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing.

**Storage:** Store in a tightly closed container in a cool, dry place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower. Ensure adequate ventilation.

**Protective Clothing:** Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves such as barrier laminate or butyl rubber  $\geq$  14 mils or neoprene rubber  $\geq$  14 mils or polyvinyl chloride  $\geq$  14 mils or Viton  $\geq$  14 mils, and protective eyewear.

**General:** Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	yellowish liquid
<b>Odor:</b>	kerosene-like
<b>Melting / Freezing point:</b>	not determined
<b>Boiling Point / Boiling Range:</b>	not determined
<b>Flammability:</b>	probably flammable
<b>Flammability Limits (upper/lower):</b>	not determined
<b>Flash Point (closed cup):</b>	>91°C
<b>Auto-ignition Temperature:</b>	product is not self-igniting
<b>Decomposition Temperature:</b>	not determined
<b>pH:</b>	5-6 (1% aq.)
<b>Kinematic Viscosity:</b>	not determined
<b>Water Solubility:</b>	dispersible
<b>Partition coefficient:</b>	not determined
<b>Vapor Pressure:</b>	not determined
<b>Density:</b>	7.99 lbs./gal.
<b>Relative Vapor Density:</b>	not determined
<b>Particle Characteristics:</b>	not determined

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Excessive heat.

**CHEMICAL STABILITY:** Stable at normal temperatures and storage conditions.

**INCOMPATIBILITY WITH OTHER MATERIALS:** Oxidizing agents

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Information presented below is from testing done on an identical or substantially similar product:**

**ORAL TOXICITY (rat LD<sub>50</sub>):** 176 mg/kg

**DERMAL TOXICITY (rat LD<sub>50</sub>):** > 2,070 mg/kg

**INHALATION TOXICITY (rat LC<sub>50</sub>):** no data available

**EYE IRRITATION:** moderately irritating

**SKIN IRRITATION:** slightly irritating

**SKIN SENSITIZATION:** Sensitization possible through skin contact

**CARCINOGENICITY:**

**NTP:** Not listed

**IARC:** Not listed

**EPA:** Group C – Possible human carcinogen (bifenthrin)  
Not likely to be carcinogenic to humans (acetamiprid)

**MUTAGENIC TOXICITY:** Animal Testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

**REPRODUCTIVE TOXICITY / TERATOGENICITY:** The active ingredient (bifenthrin) causes developmental effects in animals at high, maternally toxic doses.

## 12. ECOLOGICAL INFORMATION

This product is extremely toxic to fish, aquatic invertebrates, fish, oysters, and shrimp. This product is highly toxic to bees and birds.

Acetamiprid has properties and characteristics associated with chemicals detected in groundwater. Acetamiprid may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow. Acetamiprid may impact surface water quality due to runoff of rain water. Acetamiprid is classified as having a high potential for reaching both surface water via runoff several months or more after application.

**The following information is for the active ingredient, Acetamiprid:**

Rainbow trout: (96h LC<sub>50</sub>): > 100 mg/L  
Daphnia: (48h EC<sub>50</sub>): 49.8 mg/L (NOAEC): 5.0 mg/L  
Midge: (48 h EC<sub>50</sub>): 0.021 mg/L

**The following information is for the active ingredient, Bifenthrin:**

Rainbow trout: (96h LC<sub>50</sub>): 0.15 µg/L  
Daphnia: (48h EC<sub>50</sub>): 1.6 µg/L (NOAEC): 0.0013 µg/L  
Shrimp: (96h LC<sub>50</sub>): 0.004 µg/L

## 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Pesticide spray mixture or rinsate that cannot be used should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. See container labeling for complete disposal instructions.

## 14. TRANSPORT INFORMATION

**DOT:** UN2902 Pesticides, liquid, toxic, n.o.s. (contains Bifenthrin, Acetamiprid) 6.1, PG III

**IMDG:** UN2902 Pesticides, liquid, toxic, n.o.s. (contains Bifenthrin, Acetamiprid) 6.1, PG III. Marine Pollutant

**IATA:** UN2902 Pesticides, liquid, toxic, n.o.s. (contains Bifenthrin, Acetamiprid) 6.1, PG III. Marine Pollutant  
Reportable Quantity (RQ): None  
Emergency Guide: 151 (NAERG – North America Emergency Response Guide)

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

## 15. REGULATORY INFORMATION

### FIFRA –

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. The following is the hazard information as required on the pesticide label:

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**WARNING.** May be fatal if swallowed. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Harmful if inhaled or absorbed through the skin. Avoid breathing vapors or spray mist. Wear protective eyewear.

See inside label booklet for additional precautionary statements.

### ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish, aquatic invertebrates, fish, oysters, and shrimp. This product is highly toxic to bees and birds. Use with care when applying in areas adjacent to any body of water. 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 make applications when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water used for irrigation or domestic purposes. Do not contaminate water when disposing of equipment washwaters or rinsate.

This product is highly toxic to bees and other pollinating insects exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are foraging the treatment area. Do not contaminate water when disposing of equipment washwater or rinsate.

The use of bifenthrin is prohibited in areas that may result in exposure of endangered species to bifenthrin. Prior to use in any particular county contact the local extension service for procedures and precautions to use to protect endangered species.

### GROUND WATER ADVISORY

The chemical acetamiprid has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

### SURFACE WATER ADVISORY

The chemical acetamiprid may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several days after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of acetamiprid from runoff water and sediment. Avoid accidental or intentional application of this product to ditches, swales, drainage ways, or impervious surfaces such as driveways. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

### PHYSICAL AND CHEMICAL HAZARDS

Do not mix or allow coming in contact with oxidizing agent. Hazardous chemical reaction may occur.

### SARA Title III – Section 302 Extremely Hazardous Substances

Not listed

### SARA Title III – Section 311/312 Hazard Categories

Immediate (Acute), Delayed (Chronic)

## 15. REGULATORY INFORMATION (CONT.)

### **SARA Title III – Section 312 Threshold Planning Quantity**

The threshold planning quantity (TPQ) for this product treated as a mixture is 10,000 lbs. This product contains no ingredients with a TPQ of less than 10,000 lbs.

### **SARA Title III – Section 313 Reportable Ingredients**

Bifenthrin (CAS No. 82657-04-3) (10.0%)

### **CERCLA Reportable Quantity (RQ)**

None

### **CALIFORNIA PROP 65 STATUS –**

This product does not contain any chemical known to the state of California to cause cancer or reproductive harm.

### **CANADA –**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

## 16. OTHER INFORMATION

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

To the extent consistent with applicable law, neither Atticus, LLC nor Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ATTICUS, LLC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ATTICUS, LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SDS Version: 1.1

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