

SAFETY DATA SHEET

Solutions Pest & Lawn
2739 Pasadena Blvd.
Pasadena, Texas USA 77502

In Case of Emergency, Call
Information: 1-281-892-2500
CHEMTREC: 1-800-424-9300

1. CHEMICAL IDENTIFICATION

Product Name: Fire Ant Quarantine Granules
EPA Registration No.: 53883-122-88746
Active Ingredient (%): Bifenthrin 0.20%
Recommended Use: Insecticide

2. HAZARDS IDENTIFICATION

OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

Acute Toxicity: NC – Not Classified

Acute Oral -N/C Acute Dermal – N/C Acute Inhalation – N/C Eye Irritation – N/C

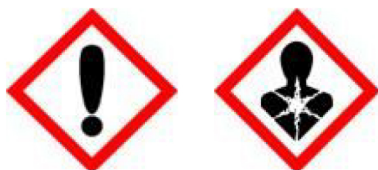
Skin Irritation – N/C Skin Sensitization – N/C

Signal Word: WARNING

HAZARD STATEMENTS:

Suspected of causing cancer. (Hazard Category 2 – Crystalline Silica)

PICTOGRAM:



PRECAUTIONARY STATEMENTS:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and clothing.

Health: Effects from overexposure result from absorption through the skin or may result from inhaling the dust. Overexposure to this product may cause diarrhea. Contact with bifenthrin may occasionally produce skin sensations such as rashes, numbing, burning, or tingling. These skin sensations are reversible and usually subside within 12 hours.

Environmental: Bifenthrin is considered acutely toxic to fish and aquatic organisms. Keep out of drains and watercourses.

GHS Classification: Environmental toxicity: Acute Aquatic, Category 1 (severe).

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Material</u>	<u>% by weight</u>	<u>CAS#</u>	<u>OSHA PEL</u>
Bifenthrin	0.20%	82657-04-3	None Established

Crystalline Silica	<96	14808-60-7	30 mg/m ³ (%SiO ₂ +2)(TWZ; total dust); 10mg/m ³ (% SiO ₂ +2) (Respirable dust)
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4. FIRST AID MEASURES

Dermal Contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center (800-222-1222) 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.

Physician's Information: This product is a pyrethroid. If large amounts have been ingested, milk, cream, and other digestible fats and oils may increase absorption and so should be avoided.

5. FIRE FIGHTING MEASURES

Flash Point: Not applicable.

Extinguishing Media: Foam, CO₂ or Dry Chemical. Soft stream water fog only if necessary.

Explosion Hazards: Slightly combustible. This material may support combustion at elevated temperatures.

Procedures: Isolate fire area. Contain all runoff. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke, gases or vapors generated.

Unusual Fire Hazards: Pesticide fires have potential to emit hazardous decomposition products. See **Section 10** for more information.

6. ACCIDENTAL RELEASE MEASURES

Release Notes: Isolate and post spill area. Wear protective clothing and personal protective equipment. See **Section 8**. Keep unprotected persons and animals out of the area. Keep material out of lakes, streams, ponds and sewer drains. Large spills should be covered to prevent dispersal. For dry material, use a wet sweeping compound or water to prevent the formation of dust. If water is used, prevent runoff or dispersion of excess liquid by diking and absorbing with a non-combustible absorbent such as clay, sand or soil. Vacuum, shovel or pump all waste material, including absorbent, into a drum and label contents for disposal. To clean and neutralize spill area, tools and equipment, wash with a suitable solution of caustic or soda ash, and an appropriate alcohol (i.e., methanol, ethanol or isopropanol). Follow this by washing with a strong soap and water solution. Absorb, as above, any excess liquid and add to the drums of waste already collected. Repeat if necessary. Dispose of drummed waste according to the method outlined in Section 13, "Disposal Considerations".

7. HANDLING AND STORAGE

Storage Conditions: Keep out of the reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, close tightly.

Special Handling: In case of spill, avoid contact. Isolate area and keep out of reach of animals and Unprotected persons. Confine spills. Cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

Considerations: Wash thoroughly after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS, CONSULT THE PRODUCT LABEL.

Engineering Controls: Use local exhaust at all process locations where vapor or mist may be emitted. Ventilate all transport vehicles prior to unloading.

Eye Protection: Wear protective eyewear or chemical safety glasses with side shields or chemical goggles when working in non-ventilated spaces.

Respiratory Protection: All pesticide handlers must wear a respiratory protection device when working in a non-ventilated space. Use one of the following: NIOSH-approved respirator with an R, P, or HE filter or a NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter.

Dermal Protection: Depending upon concentrations encountered, wear coveralls or long-sleeved uniform and head covering. For larger exposures as in the case of spills, wear full body cover barrier suit, such as a PVC suit. Leather items - such as shoes, belts and watchbands - that become contaminated should be removed and destroyed. Launder all work clothing before reuse (separately from household laundry).

Other Precautions: Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking or using tobacco. Shower at the end of the workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Odor: Slightly musty.

Physical State: Solid granule.

Color: Tan.

Vapor Pressure: Not established.

Bulk Density: 100 lb/cu. ft.

Molecular Weight: 422.88 (bifenthrin)

Viscosity: Not available.

Melting Point: Not available.

Flash Point: Not applicable.

Specific Gravity: Not available.

pH: Not available.

Water solubility: Not available.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable.

Hazardous Polymerization: Will not occur.

Decomposition Products: Carbon monoxide, carbon dioxide, hydrogen chloride and hydrogen fluoride.

Conditions to Avoid: Excessive temperatures and fire.

11. TOXICOLOGICAL DATA

Routes of Exposure: Dermal, eye, inhalation.

Skin Contact: Harmful if absorbed through skin.

Eye Contact: Avoid contact with eyes.

Inhalation: May cause nasal or respiratory irritation.

Oral LD₅₀: >5000 mg/kg (rat)

Dermal LD₅₀: >2000 mg/kg (rat)

Eye Irritation: Non-Irritating (rabbit)

Skin Irritation: Non-Irritating (rabbit)

Potential Health Effects: Effects from overexposure may result from either swallowing, inhaling or coming into contact with the skin or eyes. Symptoms of overexposure include bleeding from the nose, tremors and convulsions. Contact with bifenthrin may occasionally produce skin sensations such as rashes, numbing, burning or tingling. These skin sensations are reversible and usually subside within 12 hours.

Mutagenic Potential: Bifenthrin – None observed.

Teratogenic Effects: Bifenthrin – None observed.

Other Ingredient: Crystalline silica

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Respirable crystalline silica (quartz) inhaled from occupational sources is classified as a carcinogenic to humans.

CHRONIC EFFECTS: Silicosis, cancer, scleroderma, tuberculosis, nephrotoxicity and arthritis. The condition of individuals with lung disease (e.g., bronchitis, emphysema, chronic obstructive pulmonary disease) can be aggravated by exposure.

SIGNS & SYMPTOMS
OF EXPOSURE:

There are generally no signs or symptoms of exposure to crystalline silica (quartz). Often, chronic silicosis has no symptoms. The symptoms of chronic silicosis, if present, are shortness of breath, wheezing, cough and sputum production. The symptoms of acute silicosis are the same. Additionally, weight loss and fever are associated with acute silicosis. The symptoms of scleroderma include thickening and stiffness of the skin, particularly in the fingers, shortness of breath, difficulty swallowing and joint problems.

12. ECOLOGICAL DATA

ENVIRONMENTAL DATA: This pesticide is extremely toxic to fish and aquatic invertebrates. Do not apply when weather conditions favor drift from the treated areas. Drift and run-off treated areas may be hazardous to aquatic organisms in neighboring areas. 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 the 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.

ECOTOXICOLOGICAL DATA:

Rain Trout LC₅₀: 0.00015 mg/L

Bluegill LC₅₀: 0.00035 mg/L

Daphnia magna EC₅₀: 0.0016 µg/L

EFFECTS ON BIRDS:

Mallard Duck LD₅₀: 2150 mg/kg (21-day)

Bobwhite Quail LD₅₀: 1800 mg/kg (21-day)

13. DISPOSAL CONSIDERATION

Pesticide Disposal: Pesticide wastes are toxic. Do not contaminate water, food, or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility, in accordance with

applicable Federal, state and local laws and regulations.

Container Disposal: Dispose of product containers, waste containers, and residues according to label instructions and local, state, and federal health and environmental regulations.

14. TRANSPORTION DATA

DOT Classification: Not Regulated

International Transportation: UN 3077, Environmentally hazardous substances, solid, N.O.S. (Bifenthrin), 9, PGIII, marine pollutant.

IATA (air): UN 3077, Environmentally hazardous substances, solid, N.O.S. (Bifenthrin), 9, PGIII, marine pollutant.

15. REGULATORY DATA

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 are different from the classification criteria and hazard information for the safety data sheet, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

Section 302/TPQ: Contains no components listed under section 302.

(emergency planning)

Section 311/312 Tier II: Acute health hazard (Immediate).

Chronic health hazard (delayed).

Section 313/Reportable

Chemicals: Bifenthrin (0.2%) CAS#82657-04-3

RCRA Haz-Waste Code(s): Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

FIFRA Toxicity: All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act. The regulatory information presented is pertinent only when this product is handled outside of the normal use and application as a pesticide.

CERCLA: N/A

California Prop 65 Status: Respirable crystalline silica (quartz) is classified as a substance known to the state of California to be a carcinogen.

TSCA STATUS: The ingredients of this product are listed on the TSCA inventory or are exempt.

16. OTHER INFORMATION

Date of Last Revision: June 28, 2017

NFPA and HMIS ratings assigned to this product are based on the hazards of its ingredient (s). Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment (PPE) is provided consistent with information contained in the product SDS.

The information provided on this Safety Data Sheet is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Solutions Pest & Lawn. The data on this sheet relates only to the specific material designated herein. Solutions Pest & Lawn assumes no legal responsibility for the accuracy or completeness of this data, nor for the use or reliance upon this data.