

Material Safety Data Sheet



Fire Ant Killer Granules₂

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Fire Ant Killer Granules₂
EPA REGISTRATION NUMBER: 70506-129-85827
PRODUCT DESCRIPTION: Insecticide for mound and home perimeter use on vegetable gardens, flower gardens, and lawns.

MANUFACTURER/DISTRIBUTOR
GREEN LIGHT, A VALENT U.S.A. COMPANY
P.O. Box 8025
1600 Riviera Avenue, Suite 200
Walnut Creek, CA 94596-8025

EMERGENCY TELEPHONE NUMBERS
HEALTH EMERGENCY OR SPILL (24 hr):
(800) 892-0099
TRANSPORTATION (24 hr.): CHEMTREC
(800) 424-9300 or (202) 483-7616

PRODUCT INFORMATION
GREEN LIGHT PRODUCTS: (800) 777-5702

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW	
CAUTION	<ul style="list-style-type: none">• Keep out of reach of children• Extremely toxic to fish and aquatic invertebrates• Causes moderate eye irritation• Avoid contact with eyes or clothing• Harmful if swallowed• Highly toxic to bees

POTENTIAL HEALTH EFFECTS

Acute Toxicity (Primary Routes of Exposure): Eyes, Skin, Ingestion

Acute Skin Contact: Contact with this product may occasionally produce skin sensations such as rashes, numbing, burning and tingling. These sensations are reversible and usually subside within 12 hours.

Acute Ingestion: Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. Large doses of Bifenthrin Technical ingested by laboratory animals produced signs of toxicity including convulsions, tremors and bloody nasal discharge.

Acute Inhalation: This product is moderately toxic when inhaled.

Signs and Symptoms of Systemic Effects: No Data Available

Potentially Aggravated Medical Conditions: None known.

For complete discussion of the toxicology data from which this evaluation was made, refer to Section 11. For Ecotox/Environmental Information, refer to Section 12. For Regulatory Information, refer to Section 15.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight/ Percent	Purpose
Bifenthrin Technical (99.4%)	82657-04-3	0.1	Active Ingredient
Aromatic naphtha	64742-94-5	0.17	Solvent
Proprietary inert materials		~99	Other Ingredients

Other ingredients, which are maintained as trade secrets, are any substances other than an active ingredient contained in this product. Some of these may be hazardous, but their identities are withheld because they are considered trade secrets. The hazards associated with the other ingredients are addressed in this document. Specific information on other ingredients for the management of exposures, spills, or safety assessments can be obtained by a treating physician or nurse by calling **(800) 892-0099** at any time.

4. FIRST AID MEASURES

EMERGENCY NUMBER (800) 892-0099

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact **1-800-892-0099** for emergency medical treatment information.

EYE CONTACT:

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.

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 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

INHALATION:

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTES TO PHYSICIAN:

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

5. FIRE FIGHTING MEASURES

FLASH POINT:

Est. >212°F (>100°C)

EXTINGUISHING MEDIA:

Foam, carbon dioxide, or dry chemical. Soft stream water fog only if necessary. Contain all runoff.

FLAMMABLE LIMITS IN AIR - LOWER (%):

Not applicable

FLAMMABLE LIMITS IN AIR - UPPER (%):

Not applicable

NFPA RATING:

Health: 1
Flammability: 0
Reactivity: 0

Emergency Telephone: (800) 892-0099
REVISION NUMBER: 3

MSDS NO.: GNL-0052
REVISION DATE: 09/21/2011

Special: None

(Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using professional judgement. Values were not available in the guidelines or published evaluations prepared by the National Fire Protection Association, NFPA.

FIRE FIGHTING INSTRUCTIONS: Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and fire fighting equipment before reuse.

HAZARDOUS DECOMPOSITION PRODUCTS: Toxic fumes may be evolved if involved in a fire.

6. ACCIDENTAL RELEASE MEASURES

GREEN LIGHT EMERGENCY PHONE NUMBER: (800) 892-0099

CHEMTREC EMERGENCY PHONE NUMBER: (800) 424-9300

OBSERVE PRECAUTIONS IN SECTION 8: PERSONAL PROTECTION

Stop the source of the spill if safe to do so. Contain the spill to prevent further contamination of the soil, surface water, or ground water. For additional spill response information refer to the North American Emergency Response Guidebook.

UN/NA NUMBER: Not applicable

EMERGENCY RESPONSE GUIDEBOOK NO.: Not applicable

FOR SPILLS ON LAND

CONTAINMENT: Reduce airborne dust. Avoid runoff into storm sewers or other bodies of water. In case of spill or leak on floor or paved surfaces avoid contact, isolate area and keep out animals and unprotected persons. Shovel or sweep up and reuse in original container.

CLEANUP: Clean up spill immediately. Shovel or sweep up and place in original container for reuse.

7. HANDLING AND STORAGE

END USER MUST READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.

HANDLING:

Keep pesticide in original container. Do not store or transport near food or feed. Do not contaminate food or feed. Do not put concentrate into food or drink containers. Do not dilute concentrate in food or drink containers. Store in a cool, dry place, out of direct sunlight.

STORAGE:

Keep pesticide in original container only. Store in a cool, dry place. Keep out of reach of children and animals. Store in original bags/containers only. Store in a cool, dry place and avoid excess heat. Do not contaminate water, food, or feed by storage or disposal.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

END USER MUST READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.

EYES & FACE: Do not get this material in your eyes. Eye contact can be avoided by wearing safety goggles or a face shield.

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

EXPOSURE LIMITS

Chemical Name	ACGIH Exposure Limits	OSHA Exposure Limits	Manufacturer's Exposure Limits
Bifenthrin Technical (99.4%)	None	None	None
Aromatic naphtha	None	None	100 ppm
Proprietary inert materials	None	None	None

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM: Granule
COLOR: Off-white
FLASH POINT: Est. >212°F (>100°C)
BULK DENSITY: 57.3 lb/ft³
pH: 5.75

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable
OXIDATION/REDUCTION PROPERTIES: No data available
EXPLODABILITY: Not expected to be explosive
HAZARDOUS DECOMPOSITION PRODUCTS: Toxic fumes may be evolved if involved in a fire.
HAZARDOUS POLYMERIZATION : Will not occur
CONDITIONS TO AVOID: Excessive heat and fire.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

There is no toxicology information available for this product The following information is for the active ingredient only

Oral Toxicity LD ₅₀ (rats)	74.9 mg/kg	EPA Tox Category	II
Dermal Toxicity LD ₅₀ (rabbits)	>2000 mg/kg	EPA Tox Category	III
Inhalation Toxicity LC ₅₀ (rats)	0.80 mg/L (4 hours)	EPA Tox Category	III
Eye Irritation (rabbits) ⁵⁰	Practically non irritating	EPA Tox Category	IV
Skin Irritation (rabbits)	Practically non irritating	EPA Tox Category	IV
Skin Sensitization (guinea pigs)	Sensitizer	EPA Tox Category	Not applicable

Chemical Name	IARC - Group 1 (carcinogenic to humans)	IARC - Group 2A (Probably carcinogenic)	IARC - Group 2B (Possibly carcinogenic)	NTP Carcinogen List
Aromatic naphtha	No	No	No	Not listed
Bifenthrin Technical (99.4%)	No	No	No	Not listed

Trade Secret Component:	No	No	No	Not listed
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TOXICITY OF BIFENTHRIN TECHNICAL

NEUROTOXICITY: Bifenthrin Technical does not cause acute delayed neurotoxicity.

REPRODUCTION: Bifenthrin Technical did not cause reproductive toxicity or teratogenicity. Tremors were associated with repeated exposure of laboratory animals to Bifenthrin Technical.

MUTAGENICITY: The overall absence of genotoxicity has been demonstrated in mutagenicity tests with bifenthrin.

For a summary of the potential for adverse health effects from exposure to this product, refer to Section 2. For information regarding regulations pertaining to this product, refer to Section 15.

12. ECOLOGICAL INFORMATION

AVIAN TOXICITY: The active ingredient, Bifenthrin Technical, is only slightly toxic to both water fowl and upland game birds (LD50 values range from 1,800 mg/kg to >2,150 mg/kg).

AQUATIC ORGANISM TOXICITY: The active ingredient, Bifenthrin Technical, is highly toxic to fish and aquatic arthropods and LC50 values range from 0.0038 to 17.8 micrograms/L. Bifenthrin had no effect on mollusks at its limit of water solubility. In general, the aquatic arthropods are the most sensitive species. Care should be taken to avoid contamination of the aquatic environment.

OTHER NON-TARGET ORGANISM TOXICITY: The active ingredient in this product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area

ENVIRONMENTAL FATE: Bifenthrin Technical has moderate stability in the soil over a wide pH range and degrades at a slow rate which is governed by soil characteristics. Bifenthrin will also persist in aquatic sediments. Bifenthrin has a high Log Pow (>6.0), a high affinity for organic matter, and is not mobile in soil. Therefore, there is little potential for movement into ground water. There is the potential for bifenthrin to bioconcentrate (BCF = 11,750)

OTHER ENVIRONMENTAL INFORMATION:

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 and 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 treatment area of the lawn or garden will help to prevent run off to the water bodies or drainage systems.

13. DISPOSAL CONSIDERATIONS

END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL RECOMMENDATIONS.

CONTAINER DISPOSAL: **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain. Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. **If empty:** Place in trash or offer for recycling if available.

DISPOSAL METHODS: Check government regulations and local authorities for approved disposal of this material. Dispose in accordance with applicable laws and regulations.

14. TRANSPORT INFORMATION

UN/NA NUMBER:	Not applicable
DOT (ground) SHIPPING NAME:	Pesticide, Solid, Non-regulated
TECHNICAL NAME (hazardous material):	Not applicable
HAZARD CLASS:	Not applicable
PACKING GROUP:	Not applicable
DOT REPORTABLE QUANTITY (RQ):	Not applicable
REMARKS:	None
EXEMPTION REQUIREMENT:	None
EMERGENCY RESPONSE GUIDEBOOK NO.:	Not applicable
MARINE POLLUTANT:	Yes. Not regulated by U.S. D.O.T. - see IMDG regulations for ocean

15. REGULATORY INFORMATION

PESTICIDE REGULATIONS: All pesticides are governed under FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act). Therefore, the regulations presented below are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

U.S. FEDERAL REGULATIONS:

Ingredients in this product are reviewed against an inclusive list of federal regulations. Therefore, the user should consult appropriate authorities. The federal regulations reviewed include: Clean Water Act, SARA, CERCLA, RCRA, DOT, TSCA and OSHA. If no components or information is listed in the space below this paragraph, then none of the regulations reviewed are applicable.

SARA (311, 312):

Immediate Health:	Yes
Chronic Health:	Yes
Fire:	No
Sudden Pressure:	No
Reactivity:	No

STATE REGULATIONS:

Each state may promulgate standards more stringent than the federal government. This section cannot encompass an inclusive list of all state regulations. Therefore, the user should consult state or local authorities. The state regulations reviewed include: California Proposition 65, California Directors List of Hazardous Substances, Massachusetts Right to Know, Michigan Critical Materials List, New Jersey Right to Know, Pennsylvania Right to Know, Rhode Island Right to Know and the Minnesota Hazardous Substance list. For Washington State Right to Know, see Section 8 for Exposure Limit information. For Louisiana Right to Know refer to SARA information listed under U.S. Regulations above. If no components or information is listed in the space below this paragraph, then none of the regulations reviewed are applicable.

For information regarding potential adverse health effects from exposure to this product, refer to Sections 2 and 11.

16. OTHER INFORMATION	
REASON FOR ISSUE:	Corrected the product name.
MSDS NO.:	GNL-0052
EPA REGISTRATION NUMBER:	70506-129-85827
REVISION NUMBER:	3
REVISION DATE:	09/21/2011
SUPERCEDES DATE:	September 15, 2011
RESPONSIBLE PERSON(S):	Valent U.S.A. Corporation, Corporate EH&S, (925) 256-2803

This Material Safety Data Sheet (MSDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABELING (attached to and accompanying the product container). This MSDS 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.

Use, storage and disposal of pesticide products is regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling. All necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

The information in this MSDS is based on data available to us as of the revision date given herein, and believed to be correct. Contact Valent U.S.A. Corporation to confirm if you have the most current MSDS.

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