



Safety Data Sheet

Report Date 14-Mar-23

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1. Identification

Product Name : DEFCON 4.67G GRANULAR INSECTICIDE
Synonyms : None
Product Use : Organophosphate Insecticide
Manufacturer/Supplier : Helena Agri-Enterprises, LLC
Address : 225 Schilling Blvd. Collierville, TN 38017
General Information : 901-761-0050
Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification



Signal Word : Danger
Skin Irritation : Causes mild skin irritation
Eye Irritation : Causes eye irritation
Acute Toxicity Oral : LD50 (rat) 145 mg/kg (male), 52.8 mg/kg (female)
Acute Toxicity Dermal : LD50 (rat) >5,040 mg/kg
Hazard Categories : Oral/Dermal/Inhalation Toxicity-3/5/3; Eye/Skin Irritation-2B/3
Hazard Statement : Toxic if swallowed
May be harmful in contact with skin
Toxic if inhaled
Causes eye irritation
Causes mild skin irritation

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Tebupirimphos	96182-53-5	4.45
Cyfluthrin	68359-37-5	0.22
Other ingredients	Proprietary	95.33
(including crystalline silica)	(14808-60-7)	(0-10)

4. First Aid Measures

Eye : Do not rub eyes. Flush eyes with water. Hold eyelids apart during the flushing to ensure rinsing of the entire surface of the eyes and lids with water. If there will be a delay in getting medical attention, rinse the eyes an additional 15 minutes.



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- Skin** : Wash off with soap and water. Get medical attention if irritation develops and persists.
- Inhalation** : Remove victim to fresh air and keep at rest in a comfortable position for breathing. Provide oxygen or artificial respiration if needed. Do not use mouth-to-mouth if victim inhaled the product. Call a physician or poison control center immediately.
- Ingestion** : Call a physician or poison control center immediately. Rinse mouth. Have person sip a glass of water if able to swallow. Do not induce vomiting without advice from poison control center or doctor. If vomiting occurs, keep head low to prevent aspiration.
- Indication of Immediate Medical Attention and Special Treatment Needed** : Administer atropine sulfate in large therapeutic doses. Repeat as necessary to the point of tolerance. 2-PAM is also antidotal and may be administered in conjunction with atropine. Cholinesterase inhibitor.

5. Fire Fighting Measures

- Extinguishing Media** : Use water fog, foam, dry chemical powder or carbon dioxide.
- Specific Hazards Arising from the Chemical** : During fire, gases hazardous to the health may be formed.
- Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective clothing. Use water spray to cool fire-exposed containers. Dike and collect extinguishing water.

6. Accidental Release Measures

- Personal Precautions** : Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not breathe dust. Ensure adequate ventilation.
- Protective Equipment** : NIOSH-approved air-purifying respirator with organic vapor cartridge and particulate prefilter. Chemical-resistant gloves, chemical goggles, long-sleeved shirt and long pants, shoes plus socks. Eyewash and safety shower should be available.
- Emergency Procedures** : Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
- Methods and Materials for Containment and Cleanup** : Avoid dispersal of dust in the air. Dike the spilled material, where this is possible. Shovel the material into a waste container. Clean surfaces thoroughly to remove residual contamination. Scrub contaminated area with detergent and bleach solution.

7. Handling and Storage

- Precautions for Safe Handling** : Do not handle until all safety precautions have been read and understood. Do not breathe dust. Do not taste or swallow. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Keep product away from food, drink, cosmetics and tobacco products. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate PPE. Wash hands thoroughly after handling. Avoid release to the environment.
- Conditions for Safe Storage** : Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (strong acids, strong bases).



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8. Exposure Controls / Personal Protection

TLV/PEL : No TLV/PEL for active ingredients. Crystalline silica (respirable) PEL=0.1 mg/m³ and TLV=0.05 mg/m³.

Appropriate Engineering Controls : Good general ventilation should be used. If applicable, use process enclosures, local exhaust ventilation or other engineering controls.

Personal Protective Equipment : NIOSH-approved air-purifying respirator with organic vapor cartridge and particulate prefilter. Chemical-resistant gloves, chemical goggles, long-sleeved shirt and long pants, shoes plus socks. Eyewash and safety shower should be available.

9. Physical and Chemical Properties

Odor/Appearance : Gray, tan or reddish granule; slight onion odor.

Flash Point, °F : Not applicable

Boiling Point, °F : Not applicable

Melting Point(Freezing point), °C : Not applicable

Vapor Pressure, mm Hg @ 20 °C : Not established

Vapor Density : Not applicable

Solubility in Water : Not available

Molecular Formula : Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 38-43 lb/cu.ft. (bulk density)

Evaporation Rate(Butyl Acetate = 1) : Not applicable

Octanol/Water Partition Coefficient : Not available

pH : Not available

Flammable Limits (approximate volume % in air) : Not applicable

Auto-ignition Temperature : Not applicable

Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity : Non-reactive

Chemical Stability : Stable

Hazardous Decomposition Products : Not established

Hazardous Polymerization : Will not occur

Conditions to Avoid : Avoid contact with incompatible materials.

Incompatible Materials : Strong acids. Strong bases.



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11. Toxicological Information

- Acute Toxicity (Oral LD50)** : (rat) 145/52.8 mg/kg (male/female). Toxic if swallowed.
- Acute Toxicity (Dermal LD50)** : (rat) >5,040 mg/kg. May be harmful in contact with skin.
- Acute Toxicity Inhalation LC50** : (rat) >2.06/>0.87 mg/L/4 hour (dust). Toxic if inhaled.
- Likely Routes of Exposure** : Inhalation, skin contact, skin absorption, eye contact.
- Skin Irritation** : Causes mild skin irritation.
- Eye Irritation** : Causes eye irritation. Moderate irritation to the conjunctiva with all irritation clearing by 72 hours post-treatment (rabbit).
- Skin Sensitization** : Not a dermal sensitizer.
- Carcinogenic** : Chronic feeding studies have shown no evidence of carcinogenicity -
Tebupirimphos or Cyfluthrin.
- Chronic Effects** : Cholinesterase inhibitor (Tebupirimphos).
- Other Hazards** : CA Prop 65 **WARNINGS!**: This product can expose you to chemicals including crystalline silica, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

12. Ecological Information

- Ecotoxicity** : This product is toxic to fish and other wildlife. Keep out of any body of water. Do not contaminate water when disposing of equipment washwaters or wastes.
- Persistence and Degradability** : No information found
- Bioaccumulative Potential** : No information found
- Mobility in Soil** : No information found
- Other Adverse Effects** : No information found

13. Disposal Considerations

- Waste Disposal Method** : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

14. Transport Information

- UN Proper Shipping Name** : Organophosphorus Pesticide, Solid, Toxic, (Tebupirimphos, Cyfluthrin)
- Transport Hazard Class** : Toxic (6.1)
- UN Identification Number** : UN2783
- Packaging Group** : PG III
- Environmental Hazards** : Toxic to aquatic invertebrates
- Transport in Bulk** : No information found



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Special Precautions for Transportation : No information found

Freight Classification : Pesticides, NOI, Insecticides, Poison (NMFC Item 155050, Sub 11, Class 70)

15. Regulatory Information

National Fire Protection Association Rating :

Health: 2 Fire: 1 Reactivity: 0
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard Classification (Yes/No) :

Immediate(Acute) Health: Y
Delayed (Chronic) Health: Y
Sudden Release of N
Pressure:
Fire: N
Reactive: N

FIFRA Information : This Chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling 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:

EPA Registration Number : 5481-9028-5905

FIFRA Signal Word : Warning

FIFRA Label Statement : Keep out of reach of children.

FIFRA Label Statement : Restricted Use Pesticide - Due to toxicity to aquatic invertebrates.

FIFRA Label Statement : May be fatal if swallowed.

FIFRA Label Statement : Harmful if inhaled or absorbed through skin.

FIFRA Label Statement : Causes moderate eye irritation.

FIFRA Label Statement : Avoid breathing vapor or dust.

FIFRA Label Statement : Avoid contact with skin, eyes or clothing.

16. Other Information

Data of Preparation/Revision : 14-March-2023