



Safety Data Sheet

Report Date 27-Mar-15

Page 1 of 4

1. Identification

Product Name : Defcon 4.67 G
Synonyms : None
Product Use : Organophosphate Insecticide
Manufacturer/Supplier : Helena Chemical Company
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 : Not a skin irritant
Eye Irritation : Moderate eye irritation
Acute Toxicity Oral : LD50 (rat) 145 mg/kg (male), 52.8 (female)
Acute Toxicity Dermal : LD50 (rat) >5,040 mg/kg

Hazard Categories : Oral/Inhalation Toxicity - 3/3; Dermal Toxicity - 5; Eye Irritation - 2B; Skin Irritation - 3

Hazard Statement : Toxic if swallowed
Toxic if inhaled
Causes mild skin irritation
Causes eye irritation
May be harmful in contact with skin

3. Composition / Information on Ingredients

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

4. First Aid Measures

Eye : Immediately flush the eyes with copious amounts of clear, cool running water for a minimum of 15 minutes. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface of the eyes and lids with water. Contact a physician immediately.

Skin : Immediately flush affected areas with large amounts of water for at least 15 minutes. Remove contaminated clothing. Do not attempt to neutralize with chemical agents. Wash clothing before reuse. Contact a physician immediately if irritation develops.

Inhalation : Remove victim to fresh air. If breathing has ceased, clear the victim's airway and start mouth-to-mouth artificial respiration. If breathing is difficult, give oxygen. Contact a physician immediately.

Ingestion : Call a physician or poison control center. Drink 1 or 2 glasses of water and induce vomiting. If available, give 1 tablespoonful of syrup of ipecac to induce vomiting followed by 1 to 2 glasses of water. Do not induce vomiting if unconscious.



Safety Data Sheet

Report Date 27-Mar-15

Page 2 of 4

Indication of Immediate Medical Attention and Special Treatment Needed : This product contains an organophosphate (OP) insecticide - tebufosphate. Contact poison control center. Establish airway and oxygenation. IV atropine sulfate is the antidote of choice.

5. Fire Fighting Measures

Extinguishing Media : Use water or dry chemical.
Specific Hazards Arising from the Chemical : This product may emit hazardous fumes of an unknown composition if the product is heated to decomposition temperatures in a direct flame.
Special Fire Fight Proc : Keep out of smoke. Cool exposed containers with water spray. Fight fire from upwind position. Use self-contained breathing equipment.

6. Accidental Release Measures

Personal Precautions : Isolate the area and keep unauthorized people away. Do not walk through spilled material. Avoid breathing dusts and skin contact.
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 generating dusts - a fine water spray mist, plastic film cover or floor sweeping compound may be used if needed. Do not allow material to enter streams, sewers or other waterways.
Methods and Materials for Containment and Cleanup : Carefully sweep up spilled material. Place in a covered container for reuse or disposal. Scrub contaminated area with detergent and bleach solution. Rinse with water. Use dry absorbent material, such as clay granules, to absorb and collect wash solution for proper disposal. Contaminated soil may have to be removed and disposed.

7. Handling and Storage

Precautions for Safe Handling : Prevent skin contact. Do not breathe fumes. Wear appropriate personal protective equipment. Wash thoroughly and change clothes after handling. Keep product away from food, drink, cosmetics and tobacco products.
Conditions for Safe Storage : Store in a cool, dry area designated specifically for pesticides. Do not store near any materials intended for use or consumption by humans or animals.

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 : Maintain exposure levels below applicable exposure limits through the use of general and local exhaust ventilation.
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



Safety Data Sheet

Report Date 27-Mar-15

Page 3 of 4

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)
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 : No information found
Chemical Stability : Stable
Hazardous Decomposition : Not established
Products
Hazardous Polymerization : Will not occur
Conditions to Avoid : No information found
Incompatible Materials : Strong oxidizers and bases; may react with methanol.

11. Toxicological Information

Acute Toxicity (Oral LD50) : (rat) 145/52.8 mg/kg (male/female)
Acute Toxicity (Dermal LD50) : (rat) >5,040 mg/kg
Acute Toxicity Inhalation LC50 : (rat) >2.06/>0.87 mg/L/4 hour (dust)
Likely Routes of Exposure : Inhalation, skin contact, skin absorption, eye contact.
Skin Irritation : Not a skin irritant
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: This product contains a chemical known to the State of California to cause cancer and birth defects or reproductive harm (crystalline silica).

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



Safety Data Sheet

Report Date 27-Mar-15

Page 4 of 4

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
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 Pressure: N
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 : 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.
FIFRA Label Statement : No additional label statements.

16. Other Information

Data of Preparation/Revision : 27-March-2015