

Material Safety Data Sheet

Effective Date: 21-SEP-2011
Product: DEFCON 2.1G (EPA Reg No 5481-9030-5905)

I. IDENTIFICATION

Chemical Name: Tebupirimphos/Cyfluthrin Insecticide
Chemical Family: Organophosphate Pesticide
Formula: Not applicable, formulated mixture.
Synonyms: None
CAS Number: See Ingredients, Section III.
EPA Number: 5481-9030-5905

II. PHYSICAL DATA

Boiling Point: Not applicable
Freezing Point: Not applicable
Spec Gravity: 35-45 lbs/cu ft (density)
Vapor Pressure: Not applicable
Vapor Density: Not applicable
Solubility: Insoluble
Volatiles: Not determined
Evaporation: Not applicable
Melting Point: Not determined
Appearance: Tan/reddish granule; slight mercaptan-like odor.

III. INGREDIENTS

| Material | CAS Number | Percent | TLV | Hazard |
|--|------------|---------|-----|----------------------|
| Tebupirimphos Technical | 96182-53-5 | 2.00 | N/E | Toxic |
| Cyfluthrin Technical | 68359-37-5 | 0.1 | N/E | Toxic |
| Proprietary blend of inert ingredients including ammonia salts of carboxylic acid. | | 97.745 | N/E | Skin & eye irritant. |

IV. FIRE AND EXPLOSION HAZARD

Flash Point: Non-combustible
Autoignition Temp: Not determined
Flammable Limit: Not applicable
Extinguishing Media: Use water or dry chemical extinguishing agents.
Special Fire Fight Proc: Wear self-contained breathing apparatus and full protective equipment. Keep out of smoke. Cool fire-exposed containers with water spray.
Fire and Expl Hazard: May produce toxic and irritating fumes under fire conditions.

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V. HEALTH HAZARD

Carcinogen Information: Not listed by IARC, NTP or OSHA.

ACUTE EFFECTS OF OVER EXPOSURE

- Swallowing: May be fatal if swallowed. Do not take internally. Acute Oral LD50 (male rat): 190 mg/kg, Acute Oral LD50 (female rat): 132 mg/kg.
- Skin Absorption: Harmful if absorbed through skin. Avoid contact with skin and clothing. Acute Dermal LD50 (male/female combined rabbit): >2,000 mg/kg.
- Inhalation: May cause respiratory tract irritation. Harmful if inhaled. Avoid breathing dust or vapor. Acute Inhalation LC50 (4 hour)(male rat): >4.92 mg/L. Acute Inhalation LC50 (4 hour)(female rat): 2.86 mg/L.
- Skin contact: May cause irritation or redness. May cause transient, localized paresthesia, characterized by tingling, burning or numbness sensation in some individuals. Not a skin sensitizer.
- Eye Contact: Contact may cause moderate eye irritation. Avoid contact with the eyes.
- Chronic Effects: Tebupirimphos caused cholinesterase inhibition in chronic studies in rats, mice and dogs. Cyfluthrin caused clinical signs of toxicity including neurological symptoms in chronic studies in rats and dogs.
- Other Hazard: None currently known.

EMERGENCY AND FIRST AID PROCEDURES

- Swallowing: Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. Do NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person.
- Skin: Remove contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
- Inhalation: Move to fresh air. If not breathing, call 911

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or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.

Eyes: Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing the eyes. Call a physician or poison control center immediately.

Notes to Physician: This product is a cholinesterase inhibiting organophosphorus pesticide. The following antidotes are generally accepted: atropine and oximes. The product inhibits cholinesterase resulting in stimulation of the central nervous system, the parasympathetic nervous system and the somatic motor nerves. Derivatives of morphine are contraindicated. Watch for pulmonary edema, which may develop in serious cases of poisoning, even after 24-48 hours. At first sign of pulmonary edema, the patient should be placed in an oxygen tent and treated symptomatically.

VI. REACTIVITY

Stability: Stable

Conditions to Avoid: Avoid exposure to moisture, heat, flames and sparks. Stable under recommended storage conditions.

Polymerization: Will Not Occur

Conditions to Avoid: None currently known.

Incompatibility material: Avoid strong oxidizing agents, strong bases and methanol.

Hazardous Combustion: May produce toxic and irritating fumes under fire conditions.

VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces. Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable containers for disposal. Clean contaminated floors and objects thoroughly. Do not allow to enter soil or waterways.

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

VIII. SPECIAL PROTECTION INFORMATION

Respiration: When needed, use NIOSH-approved respirator for organic vapors/particulates.
Ventilation: General and/or local exhaust should be sufficient.
Gloves: Chemical-resistant (nitrile) gloves.
Eyes: Safety glasses with side shields.
Other: Long-sleeved shirt, long pants, and shoes plus socks.

IX. SPECIAL PRECAUTIONS

Special precaution: Keep out of reach of children. Do not store with food, feed or other material to be used or consumed by humans or animals. Handle an open container in a manner as to prevent spillage. Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products or fertilizers. Recommended maximum transport/storage temperature 100 Degrees F.
Other precaution: Remove PPE immediately after handling this product. Clean gloves with soap and water before removing.

X. SHIPPING INFORMATION

Shipping name: UN2783, Organophosphorus Pesticide, Solid, Toxic, (Tebupirimphos), 6.1, PG III "ERG # 152"
Hazard Class: Toxic (6.1)
Identification No: UN2783
Labels Required: Toxic (6.1)
Placarding: Toxic (6.1)
Freight Class: Insecticides, n.o.i., Poison (NMFC Item 155050, Sub 11, Class 70)

Chemical Name

Equivalent R.Q.

Not applicable

Not applicable

Helena Chemical Company
PH: 901-761-0050
CHEMTREC: 800-424-9300

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XI. GENERAL PRODUCT INFORMATION

National Fire Protection Association Rating:
(Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

Health: 2 Fire: 0 Reactivity: 0

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

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

Mail inquiries to: 225 Schilling Blvd., Suite 300 Collierville, TN 38017
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