

Material Safety Data Sheet

Effective Date: 21-MAR-2001

Product: PRO-MATE TALSTAR GC 0.069% WITH FERTILIZER

I. IDENTIFICATION

Chemical Name: Talstar Insecticide with Fertilizer  
Chemical Family: Bifenthrin with Granular Fertilizer  
Formula: Not applicable, formulated mixture.  
Synonyms: None  
CAS Number: Not applicable, formulated mixture.  
EPA Number: 279-3210-5905

II. PHYSICAL DATA

Boiling Point: Not applicable  
Freezing Point: Not applicable  
Spec Gravity: Not applicable  
Vapor Pressure: Not applicable  
Vapor Density: 40-100 lb./cu. ft. (bulk)  
Solubility: Not determined  
Volatiles: Not determined  
Evaporation: Not applicable  
Melting Point: Not determined  
Appearance: Dark beige granular material with fertilizer odor.

III. INGREDIENTS

Material	CAS Number	Percent TLV	Hazard
Bifenthrin	82657-04-3	0.069	Skin & eye irritant
Inert Ingredients, including formulated mixture of Fertilizer (N-P-K)		99.931	Mild skin & eye irritant

IV. FIRE AND EXPLOSION HAZARD

Flash Point: Not applicable  
Autoignition Temp: Not determined  
Flammable Limit: Not determined  
Extinguishing Media: Foam, carbon dioxide, or dry chemical. If necessary, soft stream water fog may be used. Be sure to contain all runoff.  
Special Fire Fight Proc: Isolate fire area and evacuate exposed individuals downwind. Wear full protective clothing and self-contained breathing apparatus to avoid breathing smoke, gases, or vapors.

Material Safety Data Sheet

Effective Date: 21-MAR-2001

Product: PRO-MATE TALSTAR GC 0.069% WITH FERTILIZER

---

Fire and Expl Hazard: Carbon monoxide, carbon dioxide, hydrogen chloride and hydrogen fluoride.

---

---

V. HEALTH HAZARD

---

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

ACUTE EFFECTS OF OVER EXPOSURE

---

- Swallowing: Low oral toxicity is expected. No Oral LD50 data available. Ingestion of large amounts of fertilizer with bifenthrin may cause gastrointestinal disorder, nausea, vomiting, and/or diarrhea.
- Skin Absorption: Low dermal toxicity is expected. No Dermal LD50 data available.
- Inhalation: Low inhalation toxicity is expected. No Inhalation LC50 data available.
- Skin contact: Expected to be mildly irritating to the skin. Direct skin contact may cause skin sensations such as rashes, numbing, burning or tingling. These sensations usually subside within 12 hours. Bifenthrin is not a skin sensitizer.
- Eye Contact: Expected to be mildly irritating to the eyes.
- Chronic Effects: No chronic effects known.
- Other Hazard: No other human health effects noted.

EMERGENCY AND FIRST AID PROCEDURES

---

- Swallowing: Drink plenty of water (2-4 glasses). Never give anything by mouth to an unconscious person. If discomfort persists, get medical attention.
- Skin: Wash skin with soap and water. Get medical attention if irritation occurs and persists.
- Inhalation: Remove to fresh air. If breathing difficulty develops or persists, get medical attention.
- Eyes: Flush eyes with water for 15 minutes, holding eyelids open. If irritation occurs and persists, get medical attention.
- Notes to Physician: Treatment should be directed toward control of the symptoms and the clinical condition of the patient. Reversible skin sensations (paresthesia) may occur and ordinary skin salves have been found useful in reducing any discomfort.

Material Safety Data Sheet

Effective Date: 21-MAR-2001

Product: PRO-MATE TALSTAR GC 0.069% WITH FERTILIZER

---

VI. REACTIVITY

---

Stability: Stable  
Conditions to Avoid: Excessive heat and fire.  
Polymerization: Will Not Occur  
Conditions to Avoid: None noted.  
Incompatibility material: Strong acids, caustic compounds and humid/wet conditions.  
Hazardous Combustion: Carbon monoxide, carbon dioxide, hydrogen chloride and hydrogen fluoride.

---

VII. SPILL OR LEAK PROCEDURES

---

Spill or Leak Proc: Vacuum, shovel or sweep up all spilled material and place in proper recovery drum. If uncontaminated, product may be reused. If contaminated, material must be handled as waste.  
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: For dust exposure, NIOSH/MSHA-approved respirator fitted with appropriate cartridge for pesticides.  
Ventilation: Local exhaust should be sufficient.  
Gloves: Chemical resistant gloves, such as nitrile.  
Eyes: Chemical workers' goggles or face shield (dust).  
Other: Long sleeve shirt and long pants, shoes plus socks, eyewash station and emergency shower.

---

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. Do not contaminate water supplies, lakes, streams or ponds. Store in a cool, dry, well-ventilated place in original containers. Do not use or store near heat, open flame or hot surfaces.  
Other precaution: Bifenthrin is highly toxic to fish and other aquatic organisms. Do not allow runoff or cleanup waters to contaminate waterways.

Material Safety Data Sheet

Effective Date: 21-MAR-2001

Product: PRO-MATE TALSTAR GC 0.069% WITH FERTILIZER

-----  
-----  
X. SHIPPING INFORMATION  
-----

Shipping name: Not regulated by DOT.  
Hazard Class: None  
Identification No: None required  
Labels Required: None required  
Placarding: None required  
Freight Class: Compound, Fertilizer (Manufactured Fertilizer),  
Solid, NOIBN

Chemical Name	Equivalent R.Q.
-----	-----
Not applicable	Not applicable

-----  
XI. GENERAL PRODUCT INFORMATION  
-----

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

Health: 1                      Fire: 1                      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  
Helena Chemical Company believes that the data contained herein is factual.  
This data is not to be taken as a warranty or representation of legal  
responsibility. It is offered solely for your consideration, investigation  
and verification.