MATERIAL SAFETY DATA SHEET

LEBANON PROSCAPE(R) HOMOGENEOUS FERTILIZER
WITH TALSTAR(R) .069% INSECT CONTROL

This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200; the EC directive, 91/155/EEC and other regulatory requirements. The information contained herein is for the concentrate as packaged, unless otherwise noted.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: LEBANON PROSCAPE(R) HOMOGENEOUS FERTILIZER
WITH TALSTAR(R) .069% INSECT CONTROL

PRODUCT CODE: 21-54420

ACTIVE INGREDIENT: Bifenthrin

CHEMICAL FAMILY: Pyrethroid Pesticide

MOLECULAR FORMULA: C23H22ClF3O2 [bifenthrin]

SYNONYMS: FMC 54600; (2-methyl[1,1'-biphenyl]-3-yl)methyl
3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-
dimethylcyclopropylcarboxylate; IUPAC: 2-methylbiphenyl-3-
ylmethyl (Z)-(1RS)-cis-3-(2-chloro-3,3,3-trifluoroprop-1-
eny) 2,2-dimethylcyclopropylcarboxylate

MANUFACTURER:
LEBANON SEABORD CORPORATION
1600 E. Cumberland Street
Lebanon, PA 17042

General Information:
800-532-0990
Emergency Telephone Numbers:
CHMTRAC (800) 424-9300 (USA & Canada)
(202) 483-7616 (All other countries)

2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME | CAS # | WT. % | FEL/TLV
--- | --- | --- | ---
Bifenthrin | 82697-04-3 | 0.069 | None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
IMMEDIATE CONCERNS:
- Dark-beige, granular-like with an earthy fertilizer-like odor.
- Slightly combustible. May support combustion at elevated temperatures.
- Thermal decomposition and burning may form toxic by-products.
- For large exposures or fire, wear personal protective equipment.
- Highly toxic to fish and aquatic organisms. Keep out of drains and water courses.

POSSIBLE HEALTH EFFECTS:
- Effects from overexposure result from either swallowing, or coming into contact with the skin or eyes. Contact with bifenthrin may occasionally produce skin sensations such as rashes, numbing, burning or tingling. These skin sensations are reversible and usually subside within 12 hours.

MEDICAL CONDITIONS AGGRAVATED: None presently known.

4. FIRST AID MEASURES

EYES: Flush with water for at least 15 minutes. If irritation occurs and persists, obtain medical attention.

SKIN: Wash with plenty of soap and water. Get medical attention if irritation occurs and persists.

INGESTION: Drink plenty of water. Never give anything by mouth to an unconscious person. If any discomfort persists, obtain medical attention.

INHALATION: Remove to fresh air. If breathing difficulty or discomfort occurs and persists, obtain medical attention.

NOTES TO MEDICAL DOCTOR: This product is expected to have low oral, dermal and inhalation toxicity. It is expected to be mildly irritating to the skin and eyes. Reversible skin sensations (paresthesia) may occur and ordinary skin salves have been found useful in reducing discomfort. Treatment is otherwise controlled removal of exposure followed by symptomatic and supportive care.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Foam, CO2 or dry chemical. Soft stream water fog only if necessary. Contain all runoff.

FIRE/EXPLOSION HAZARDS: Slightly combustible. This material may support combustion at elevated temperatures.

FIRE FIGHTING PROCEDURES: Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke, gases or vapors generated.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, hydrogen, chlorine and hydrogen fluoride. If heated to decomposition, may give off ammonia and formaldehyde, as well as oxides of sulfur, manganese, magnesium, iron, potassium and phosphorus. Urea can yield cyanuric acid or bluer upon heating.

6. ACCIDENTAL RELEASE MEASURES

RELEASE NOTES: Isolate and post spill area. Wear protective clothing and personal protective equipment as prescribed in Section 8, "Exposure Controls/Personal Protection". Keep unprotected persons and animals out of the area. Keep material out of lakes, streams and other watercourses. Large spills should be covered to prevent dispersal. For dry material, use a wet sweeping compound or water to prevent the formation of dust. If water is used, prevent runoff or dispersion of excess liquid by diking and absorbing with a non-combustible absorbent such as clay, sand or soil. Vacuum, shovel or pump all waste material, including absorbent, into a drum and label contents for disposal.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Store in a cool, dry well-ventilated place. Do not use near heat, open flame or hot surfaces. Store in original containers only. Keep out of reach of children and animals. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.
Large doses of bifenthrin ingested by laboratory animals produced signs of toxicity including convulsions, tremors and bloody nasal discharge. Bifenthrin does not cause acute delayed neurotoxicity. Experience to date indicates that contact with bifenthrin may occasionally produce skin sensations such as rashes, numbing, burning or tingling. These sensations are reversible and usually subside within 12 hours.

CHRONIC EFFECTS FROM OVEREXPOSURE: No data available for the formulation. In studies with laboratory animals, bifenthrin did not cause reproductive toxicity or teratogenicity. Tremors were associated with repeated exposure of laboratory animals to bifenthrin. In lifetime feeding studies conducted with rodents, a slight increase in the incidence of urinary bladder tumors at the highest dose in male mice was considered to be an equivocal response, not evidence of a clear compound-related effect. The overall absence of genotoxicity has been demonstrated in mutagenicity tests with bifenthrin.

CARCINOGENICITY: IARC: Not listed. NTP: Not listed. OSHA: Not listed. OTHER: Not listed. (ACGIH)

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No data available for the formulation. Bifenthrin has moderate stability in the soil under aerobic conditions (half-life range from 65 - 125 days depending on soil type) and is stable at a wide range of pH values. 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).

ECOTOXICOLOGICAL INFORMATION: No data available for the formulation. Bifenthrin is highly toxic to fish and aquatic arthropods and LC50 values range from 0.038 to 17.0 ug/L. In general, the aquatic arthropods are the most sensitive species. Care should be taken to avoid contamination of the aquatic environment. Bifenthrin had no effect on mollusks at its limit of water solubility. Bifenthrin 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).

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Open dumping or burning of this material or its packaging is prohibited. If spilled material cannot be disposed of by use according to label instructions, an acceptable method of disposal is to incinerate in accordance with local, state and national environmental laws, rules, standards and regulations.

14. TRANSPORT INFORMATION


MARINE POLLUTANT (B): Not listed SPECIAL SHIPPIING NOTES: NOTE: This material is not subject to the hazardous materials or dangerous goods regulations as specified in 49 CFR Parts 100-180, IMDG Code or ICAO.
15. REGULATORY INFORMATION

UNITED STATES
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)
SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355): Not listed
SECTION 311 HAZARD CATEGORIES (40 CFR 370): Immediate
SECTION 312 THRESHOLD PLANNING QUANTITY (40 CFR 370):
The threshold planning quantity (TPQ) for this product, if treated as a mixture, is 10,000 lbs. This product contains the following ingredients with a TPQ of less than 10,000 lbs.: Not listed
SECTION 313 REPORTABLE INGREDIENTS (40 CFR 372):
(bifenthrin 0.069% - below de minimis value)
CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPARISON AND LIABILITY ACT)
CERCLA REGULATORY (40 CFR 302.4): Not listed
COMMENTS: Australian Hazard Code: 3XX

16. OTHER INFORMATION
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