

CARDINAL PROFESSIONAL PRODUCTS  
P.O. BOX 782  
HOLLISTER, CA 95024

**MSDS SHEET**

EMERGENCY PHONE NUMBERS: (800) 548-2223

INFOTRAC (800) 535-5053

**1. PRODUCT IDENTIFICATION**

PRODUCT NAME: CARDINAL FOOD PLANT CONCENTRATED INSECTICIDE  
PRODUCT DESCRIPTION: Botanical Insecticide  
EPA ESTABLISHMENT NO. 48498-CA-01 EPA REGISTRATION NO.8536-37

**2. HAZARDOUS INGREDIENTS**

Pyrethrins (CAS# 800-34-7).....0.50%  
\* Piperonyl Butoxide, Technical (CAS# 51-03-6).....5.00%  
Petroleum Distillate (CAS# 64742-47-8).....94.50%  
100.00%

\*Consist of 4.00% (butlycarbityl)(6-propylpiperonyl) ether and 1.00% related compounds.

**3. PHYSICAL DATA**

SPECIFIC GRAVITY (@60°F): 0.773 SOLUBILITY IN WATER: <5%  
WEIGHT PER GALLON: 6.45 SOLUBILITY IN OIL: 100%  
COLOR: Amber FLASH POINT: >130°F, TCC  
ODOR: Pyrethrum Odor VAPOR PRESSURE (mm Hg @20°C): <1

**4. FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT: >130°F, TCC  
EXTINGUISHING MEDIA: Foam, dry chemical or CO<sub>2</sub> extinguisher.  
FIRE & EXPLOSION HAZARDS: This material is combustibile and may be ignited by heat or open flame.  
FIRE FIGHTING PROCEDURES: The use of a SCBA is recommended for fire fighters. Treat as an oil fire.

**5. HEALTH HAZARD DATA**

TOXICITY: Oral LD<sub>50</sub> (RAT) 1,680 mg/kg, 20% Pyrethrum Extract  
THRESHOLD LIMIT VALUE: 5 mg/m<sup>3</sup> for Pyrethrins

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OCCUPATIONAL EXPOSURE LIMIT: Not established.  
CARCINOGENICITY: Not established, but the ingredients are not considered carcinogenic.

### PRIMARY ROUTES OF ENTRY

**EYE CONTACT:** This product may cause eye irritation. Direct contact with the liquid or exposure to its vapor or mist may cause burning, tearing and redness.

**SKIN CONTACT:** This product may cause skin irritation. Prolonged or repeated exposure to this material may cause redness and burning, drying and cracking of the skin and dermatitis. Persons with pre-existing skin disorders may be more susceptible to the effect of this material.

**INHALATION:** Inhalation of excessive concentration of vapors or mists may cause irritation of the nose and throat, nervous system depression (e.g. drowsiness, dizziness and asthma-like conditions) and additional breathing difficulties due to the irritant properties of this material.

**INGESTION:** Ingestion of excessive quantities may cause irritation of the digestive tract and signs of nervous system depression (e.g. drowsiness, dizziness, loss of coordination and fatigue).

**Aspiration Hazard:** This material can enter lungs during swallowing or vomiting and cause lung inflammation and damage.

### EMERGENCY AND FIRST AID PROCEDURES

**EYE CONTACT:** If irritation or redness from exposure to vapors develops, move victim away from exposure and into fresh air. If irritation or redness persists, seek medical attention. For direct contact, flush the affected eye(s) with clean water. Seek medical attention.

**SKIN CONTACT:** Remove contaminated clothing. Cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops and persists, seek medical attention.

**INHALATION:** If irritation of nose or throat develops, move victim away from source of exposure and into fresh air. If irritation persists, seek medical attention. If victim is not breathing, artificial respiration should be administered by qualified personnel. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

## 6. REACTIVITY DATA

**STABILITY:** Stable.

**INCOMPATIBILITY (MATERIALS TO AVOID):** May react with strong acids, bases or other strong oxidizing materials.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition in the presence of air may yield carbon monoxide and / or carbon dioxide.

**HAZARDOUS POLYMERIZATION:** Will not occur.

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## 7. SPILL OR LEAK PROCEDURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED:** Extinguish or remove all sources of potential ignition. Do not allow spilled or leaking material to enter drain, sewers or waterways. If indoors, ventilate area of spill. Soak up with absorbent material such as sand, sawdust, earth or fuller's earth and discard with chemical waste (see pesticide disposal below).

**WASTE DISPOSAL METHOD:** Do not contaminate waters, food or feed by storage or disposal.

**PESTICIDE DISPOSAL:** Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of according to applicable local, State and Federal procedures.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent) then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other approved State and local authorities. Also, see product label for other storage and disposal methods.

## **8. SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION:** Do not breathe spray or mist. Wear a pesticide respirator jointly approved by the Mine Safety and Health Administration and by the National Institute for Occupational Safety and Health under the provision of 30 CFR Part II.

**PROTECTIVE GLOVES:** Wear rubber gloves.

**EYE PROTECTION:** Wear goggles, face shield or full face respirator.

**OTHER PRECAUTIONS:** Keep out of reach of children. Harmful if swallowed. Food should be removed or covered during treatment. All food processing surfaces should be covered during treatment or thoroughly cleaned before use. When using this product in these areas, apply only when the facility is not in operation. Wear protective clothing. Wash hands, arms and face with soap and water after handling and before eating or smoking. Wash all contaminated clothing with soap and hot water before re-use.

## **9. SPECIAL PRECAUTIONS**

Store in cool, dry place. Extinguish open flame before space spraying. This formulation is combustible. DO NOT USE, POUR, SPILL OR STORE NEAR HEAT OR OPEN FLAME. Ventilate the room thoroughly before re-entry. This product is toxic to fish. Remove pets, birds and cover fish aquariums before spraying. Keep out of lakes, streams or ponds.

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## **10. SHIPPING DATA**

### **Quantities 30.9 Gal. and Under Per Container**

INSECTICIDES, LIQUID, N.O.I., NOT DOT REGULATED

### **Quantities 31 Gal. and Over Per Container**

ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.(PYRETHRINS), 9, UN 3082, PG III, RQ, NMFC 102120

## **11. DOCUMENTATION**

EFFECTIVE: 3/96

SUPERSEDED: 1/95

PREPARED BY: Jerry Fisher

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