Brand Information
Brand Name: Bonide Fruit Tree Spray

Concentrate-01/14/2002
Other Codes: EPA Reg No: 4-122
Form: liquid
Product Category: Pesticides >> Insecticide >> trees, fruit
Pesticides >> Fungicide >> flowers
Pesticides >> Fungicide >> trees, fruit

Date Entered: 2005-01-14
Related Items: Products with similar usage in this database

Manufacturer
Manufacturer: Bonide Products, Inc.
Address: 6301 Sutliff Road
City: Oriskany
State: NY
Zip Code: 13424
Telephone Number: 315-736-8231
Fax Number: 315-736-7582
Toll Free Number: 800-536-8231
Date Info Verified: 2004-03-28
Related Items: Products by this manufacturer

Health Effects
The following information (Health Effects, Handling/Disposal, and Ingredients) is taken from the product label and/or the Material Safety Data Sheet (MSDS) prepared by the manufacturer. The National Library of Medicine does not evaluate information from the product label or the Material Safety Data Sheet.

Warning from Product Label: Causes irreversible eye damage. Harmful if swallowed or inhaled. May cause allergic skin reactions. Do not get in eyes. Wear goggles or face shield when handling. Avoid contact with skin and clothing. Wear long-sleeved shirt, long pants, shoes plus socks and household latex or rubber gloves when mixing and applying this product. Wear a hat and eye protection when making overhead applications. Remove clothing immediately if pesticide soaks clothing. Change clothing as soon as possible after use. Wash the outside of gloves before removing. As with any pesticide product, wash hands thoroughly immediately after
Do not allow children or pets to contact treated area until sprays have dried. This product is toxic to fish, aquatic invertebrates, and aquatic life stages of amphibians. Do not apply directly to water. Drift and runoff may be hazardous to aquatic organisms in areas near the application site. Do not clean equipment or dispose of equipment wash waters in a manner that will contaminate water resources. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Extremely flammable. Keep away from fire, sparks, and heated surfaces. KEEP OUT OF REACH OF CHILDREN.

Acute Health Effects: From MSDS:

**PRIMARY ROUTES OF ENTRY:** Skin, eye, inhalation, ingestion

**SIGNS & SYMPTOMS OF EXPOSURE:**
Two of the active ingredients, sevin and malathion, are cholinesterase inhibitors. May cause eye and/or skin irritation. Vapors may irritate eyes. Prolonged skin and/or eye contact may result in material being absorbed in harmful amounts. Single dose oral toxicity is moderate; however, ingestion of larger amounts may cause serious injury. Inhalation of excessive amounts may cause upper respiratory tract irritation. Symptoms include headaches, dizziness, incoordination, drowsiness and unconsciousness.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:**
Any disease, medication or prior exposure, which reduces normal cholinesterase activity, may increase the susceptibility to the toxic effects of the active ingredients. Pre-existing skin, eye, liver, kidney, nervous system or respiratory disorders may be aggravated by excessive overexposure. Skin irritation may be aggravated in persons with existing skin lesions. Over-exposure may aggravate existing chronic cardiovascular or respiratory disease, leading to respiratory difficulty, pulmonary edema and cyanosis. Exposure to cholinesterase inhibitors should be restricted in persons with hemolytic anemias or pre-existing cholinesterase inhibition.

**Chronic Health Effects:** From MSDS:
Repeated exposures to cholinesterase inhibitors may, without warning, cause increased susceptibility to doses of any other cholinesterase inhibitor. Kidney and liver damage is possible from exposure to xylenes over long periods of time.

**Carcinogenicity:** From MSDS:
Positive Teratogen/Mutagen/Carcinogen (NTP): No
Potential Carcinogen (IARC/OSHA): No

This product contains a chemical known to the state of California to cause cancer (capta..
First Aid: MSDS:
If known exposure occurs or if poisoning is suspected, DO NOT WAIT FOR SYMPTOMS TO DEVELOP. Immediately start the procedures recommended below and simultaneously contact a Poison Control Center, a physician or the nearest hospital, inform the person contacted of the type and extent of exposure, describe the victim’s symptoms, and follow the advice given.

SKIN: Wash the material off the skin with plenty of soap and water. If reddness, itching or a burning sensation develops, get medical attention. Wash any contaminated clothing and decontaminate footwear before reuse.
EYES: Immediately flush eyes with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and treated by medical personnel as soon as possible.
INGESTION: Do not induce vomiting. Aspiration hazard exists if swallowed or if vomiting occurs; product can enter lungs and cause damage. Call a physician or Poison Control Center immediately.
INHALATION: Remove victim to fresh air. Contact medical personnel if a cough or other respiratory symptoms develop. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is labored, give oxygen. Consult medical personnel.

NOTES TO PHYSICIAN:
Contains an aromatic petroleum solvent, vomiting may cause aspiration pneumonia. Product also contains two active ingredients which are cholinesterase inhibitors affecting the central and peripheral nervous systems and producing cardiac and respiratory depression. Atropine sulfate in large doses is an antidote. Two to four mg intravenously or intramuscularly as soon as cyanosis is overcome. Repeat at 5 to 10 minute intervals until signs of atropinization appear. 2-PAM chloride is a pharmacological antidote.
DO NOT GIVE MORPHINE OR TRANQUILLIZERS.
At first sign of pulmonary edema, the patient should be given supplemental oxygen and treated symptomatically. Continued absorption of malathion may occur and relapse may occur after initial improvement.
VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FOR AT LEAST 48 HOURS.

Health Rating: 2
Flammability Rating: 2
Reactivity Rating: 0
HMIS Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe;
N = No information provided by manufacturer; * = Chronic
Health Hazard
MSDS Date: 2002-01-14

Handling/Disposal
HANDLING PRECAUTIONS: Avoid excess heat, sparks, open flame or other ignition sources. Do not take internally.
Avoid breathing vapors or spray mist. Avoid contact with skin, eyes & clothing. Wash thoroughly after handling. Do not contaminate water by disposal of equipment washwaters.

STORAGE: Store in a cool, dry area out of reach of children and animals. Avoid sources of ignition.

Disposition: MSDS:
Dispose according to EPA procedures as outlined in RCRA. Follow local and state requirements.
This product is toxic to fish, bees, aquatic and estuarine invertebrates, aquatic life stages of amphibians.

Ingredients from MSDS/Label

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS No / Unique ID</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbaryl</td>
<td>0000063-25-2</td>
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</tr>
<tr>
<td>Ethylbenzene</td>
<td>000100-41-4</td>
<td></td>
</tr>
<tr>
<td>Malathion</td>
<td>000121-75-5</td>
<td></td>
</tr>
<tr>
<td>Captan</td>
<td>000133-06-2</td>
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</tr>
<tr>
<td>Xylene (mixed isomers)</td>
<td>001330-20-7</td>
<td></td>
</tr>
<tr>
<td>Trimethylbenzenes (mixed isomers)</td>
<td>025551-13-7</td>
<td></td>
</tr>
<tr>
<td>Solvent naphtha, petroleum, light aromatic</td>
<td>064742-95-6</td>
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</tbody>
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