Orthene® 97 ST
Soluble Insecticide

Active Ingredient

*Acetate............................................................................................................................................97.4 %
Inert Ingredients....................................................................................................................................2.6 %
Total..................................................................................................................................................100.0 %

*O,S-Dimethyl acetylphosphoramidothioate

U.S. Patent. No. 6,013,272

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

Acephate is an organophosphate, cholinesterase inhibitor.

If swallowed:
- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

If in eyes:
- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

If on skin or clothing:
- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

If inhaled:
- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

EMERGENCY INFORMATION

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:

For Medical Emergencies phone: .................................................................1-888-681-4261
For Transportation Emergencies, including spill, leak or fire, phone: CHEMTREC® ........................1-800-424-9300
For Product Use Information phone: AMVAC®..............................................................1-888-462-6822

NOTE TO PHYSICIAN

This material contains a cholinesterase inhibitor. Measurement of blood cholinesterase activity may be useful in monitoring exposure but decisions regarding treatment will usually need to be made before test results are available. If signs of cholinesterase inhibition appear, atropine sulfate is antidotal. 2-PAM (PROTOPAM) is also antidotal and may be used in conjunction with atropine but should not be used alone.

SEE SIDE/BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE.

EPA Reg. No. 5481-8978

Net Contents: ___ Pounds

EPA Est. No.

Orthene 97 ST.8978.20150710.approvedkkr20150710
PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

Harmful if swallowed.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product butyl rubber, nitrile rubber, or neoprene. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Mixers, Loaders, Applicators and Other Handlers must wear: Long-sleeved shirt and long pants, chemical-resistant gloves and shoes plus socks.

In addition, all Mixers and Loaders and all Applicators using low pressure hand wand application equipment must wear: A NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any N, R, P or HE filter.

Follow the manufacturer’s instructions for cleaning/maintaining PPE. If no instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:
- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters. Cover with soil or soil-incorporate spills.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

This product and its degradate are 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 while bees are foraging the treatment area.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.
USE RESTRICTIONS

- Not for use on agricultural establishments in hopper-box, planter-box, slurry-box or other seed treatment applications at, or immediately before, planting.
- When using formulations that do not contain dye, compliance with 21 CFR Chapter 1, Section 2.5 requires that all seed treated with pesticide must be colored to distinguish from, and prevent subsequent inadvertent use as, food for human, or feed for animals.
- Treated seed must not be used for, or mixed with, food or animal feed, or processed for oil. Seed treated with ORTHENE 97 ST may be considered adulterated under state and federal laws if sold or shipped as food or feedstuffs. Seed commercially treated with ORTHENE 97 ST must be labeled as follows: "TREATED SEED DO NOT USE FOR FOOD, FEED OR OIL."
- Observe all precautions and limitations on labeling of all products used in mixtures.
- Do not apply more than 4.0 lbs. ai/A per crop cycle. This includes all uses of acephate in commercial seed treatment, in-furrow spray and foliar applications.
- Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticide remain in ethanol by-products that are used in agronomic practice.
- Store away from feeds and other foodstuffs.
- Wear long-sleeved shirt, long pants and chemical-resistant gloves when handling treated seed.
- Dispose of seed packaging in accordance with local requirements.
- Exposed treated seed may be hazardous to birds and wildlife. Dispose of all excess treated seed and seed packaging by burial away from bodies of water. Cover or soil-incorporate spilled treated seeds.
- Treated seeds must be planted into the soil at the depth of 1 inch or greater.

## COMMERCIAL TREATED COTTONSEED

<table>
<thead>
<tr>
<th>PESTS CONTROLLED</th>
<th>AMOUNT PER 100 LBS. COTTONSEED</th>
<th>EFFICACY</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cotton Aphid</td>
<td>6.4 oz. (0.4 lb.)</td>
<td>Gives effective reduction of Thrips and Cotton Aphid for up to 3 weeks after planting.</td>
<td>ORTHENE 97 ST contains a water-soluble systemic insecticide which helps to reduce injury to cotton seedlings by several insects. ORTHENE 97 ST can be mixed in the slurry tank with most of the fungicide seed treatments in common use. ORTHENE 97 ST can also be applied as a separate treatment using enough water to give adequate coverage of the seed. ORTHENE 97 ST dissolves quickly in water with a minimum of agitation.</td>
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<tr>
<td>(Thrips (including Western Flower Thrips))</td>
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</tbody>
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**Seed Container Label Requirements**

Seed commercially treated with acephate insecticide must be labeled in compliance with all the requirements of the Federal Seed Act. Federal law requires that bags containing treated seeds shall be labeled with the following statements:

- This seed has been treated with acephate insecticide.
- Do not use for food, feed or oil purposes.
- User is responsible for ensuring that the seed container label is in compliance with all of the requirements of the Federal Seed Act.

In addition, the EPA requires all bags containing treated seed must be labeled or tagged with the following information:
This seed has been treated with Orthene 97 ST, which contains x mg* active ingredient (ai) per seed.
*to be filled in

Do not apply more than 4.0 lbs. a.i./A per crop cycle. This includes all uses of acephate such as commercial seed treatments, in-furrow spray, and foliar applications.

Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticide remain in ethanol by-products that are used in agronomic practice.

Store away from feeds and other foodstuffs.

Wear long-sleeved shirt, long pants, and chemical-resistant gloves when handling treated seed.

Disperse seed packaging in accordance with local requirements.

Exposed treated seed may be hazardous to birds and wildlife. Disperse all excess treated seed and seed packaging by burial away from bodies of water. Cover or soil-incorporate spilled treated seeds.

Treated seeds must be planted into the soil at the depth of 1 inch or greater.

Note to User: One pound of Orthene 97 ST contains 441,799 mg AI (acephate). Example for calculating mg of active ingredient (ai) per seed: 6.4 oz. of Orthene 97 ST contains 176,719 mg of AI (acephate). To calculate the number of milligrams per seed in the bag, determine the number of seeds per bag and the weight of the seeds: In this example a 50 lb treated bag contains 230,000 seeds, 100 lbs is the equivalent of 460,000 seeds. For each 100 lbs. there is 176,719 mg of acephate from Orthene 97 ST (6.4 oz Orthene 97 ST/100 lbs of seed). The mg of acephate per seed in this example is 176,719 mg ÷ 460,000 seeds = 0.384 mg/seed.

STORAGE AND DISPOSAL
Do not contaminate water, food or feed by storage, disposal or cleaning of equipment.

PESTICIDE STORAGE
Keep pesticide in original container.
Do not put concentrate or dilute into food or drink containers.
Store in a cool, dry place. Protect from excessive heat.
Do not contaminate food or foodstuffs.
Do not store or transport near feed or food.
For help with any spill, leak, fire or exposure involving this material, call day or night 1-888-462-6822.

PESTICIDE DISPOSAL: To avoid wastes, use all materials in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

CONTAINER DISPOSAL
Nonrefillable container. Do not reuse or refill this container. Completely empty canister into application equipment. Do not reuse container. Dispose of empty canister in a sanitary landfill or by incineration, or offer for recycling, if available, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

LIMITED WARRANTY AND DISCLAIMER
The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use, subject to the inherent risks referred to herein, when it is used in accordance with such directions; and (c) that the directions, warnings, and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants and residues on food crops, and upon reports of field experience. Tests have not been made on all varieties of food crops and plants, or in all states or under all conditions.

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