

Orthene Turf, Tree & Ornamental 97 Spray

Registrant: Amvac Chemical Corporation

GENERAL

EPA Registration Number:	5481-8978	Signal Word:	CAUTION
CA Registration Number:	5481-8978-ZB		
Active Ingredient:	97.4 - Acephate	Application Methods:	Air, Ground
Label Version:	12643a-20150710b	Mode of Action:	IRAC 1B
Physical State:	Dry	Toxic To:	Bees, Birds
Product Type:	Insecticide	Rainfastness:	
Formulation Type:	Pellets		

ADDITIONAL INFORMATION

Federally Restricted:	No		
Organic Certifications:	None	Other Certifications:	None
Posting Required:	No	Closed Mixing System Required:	All applications in All States/Provinces: Not required
Oral Notification Required:	No	Avoid Grazing:	See Label

CALIFORNIA

Registration #:	5481-8978-ZB	CA Restricted:	No
CA NOI Required:	No		

REGISTERED FOR USE IN

PACKAGE TYPES

0.773 LB Package(s) (12 / Case)	1 LB Package(s) (12 / Case)	7.73 LB Package(s) (4 / Case)
10 LB Package(s) (4 / Case)		

**Specific Notices will not be shown until a pest is selected.

SAFETY**PPE Information:**

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 approved number prefix TC-21C or a NIOSH-approved respirator with any N, R, P or HE filter. See Engineering Controls for additional requirements. The use of human flaggers is prohibited. Follow the manufacturers instructions for cleaning/maintaining PPE. If no instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Re-Entry PPE Information:

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: - coveralls - chemical resistant gloves made of any waterproof material - shoes plus socks

Transport Information:

DOT Not regulated as dangerous goods. IATA Not regulated as dangerous goods. Read safety instructions, SDS and emergency procedures before handling. IMDG UN number UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Acephate), MARINE POLLUTANT UN proper shipping name Class 9 Transport hazard class(es) Subsidiary risk - Packing group III Marine pollutant Yes Environmental hazards EmS F-A, S-F Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

Response Number:

800-424-9300

Medical Number:

888-681-4261

SDS Hazard ID Signal Word:

Warning

GENERAL NOTICE 1

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 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 actively visiting the treatment area.

GENERAL NOTICE 2

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.

GENERAL NOTICE 3

USE RESTRICTIONS - Not for indoor residential use. - For use on turf, use limited to sod farms and golf courses, except when applying to mound or spot treatment for fire ant and harvester ant control. - Do not apply with low pressure handwand except for control of fire ants as a mound treatment and when used on ornamental trees, shrubs and floral plants grown for non-agricultural or non-commercial use. - For greenhouse use, use is limited to commercial greenhouses for use on ornamental, floral and foliage plants and tobacco (floatbed application). - Do not apply through any type of irrigation equipment. - Not for aerial application.

GENERAL NOTICE 4

SPRAY DRIFT MANAGEMENT A variety of factors including weather conditions, (e.g., wind directions, wind speed, temperature, relative humidity) and method of application (e.g., ground, airblast,) can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product. - All application equipment must be properly maintained and calibrated using water as the carrier. - Do not apply this product as an ultralow (ULV) spray or in any carrier other than water. - Use the largest droplet size consistent with good pest control. Small droplets are more prone to spray drift and can be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible and by avoiding excessive spray boom pressure. - Do not apply at wind speeds greater than 10 mph at the application site. - Apply as close to target plants as practical to obtain a good spray pattern for adequate coverage. - For airblast applications, direct spray above foliage and turn off outward pointing nozzles at row ends and outer rows. Apply only when wind speed is 3 to 10 mph at the application site as measured by an anemometer outside of the treated area on the upwind side. - For ground boom applications, apply with nozzle height no more than 4 feet above the ground and when wind speed is 10 mph or less at the application site as measured by an anemometer. Use medium or coarser spray according to the ASAE 572 definition for standard nozzles or VMD for spinning atomizer nozzles. - Do not allow spray to drift from the application site and contact people, structures people occupy at any time and the associated property, parks and recreation areas, nontarget crops, aquatic and wetland areas, woodlands, pastures, rangelands or animals. - The applicator also must use all other measures necessary to control drift.

GENERAL NOTICE 5

Engineering Controls: Pilots must use an enclosed cockpit in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)]. The use of human flaggers is prohibited. 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.

GENERAL NOTICE 6

NON-AGRICULTURAL USE REQUIREMENTS The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses. Do not enter or allow others to enter until sprays have dried.

GENERAL NOTICE 7

[Worker Protection exclusionary statement for use only with Cotton Seed Treatment use.] Not for use on agricultural establishments in hopper-box, planter-box, slurry-box or other seed treatment applications at, or immediately before, planting.

GENERAL NOTICE 8

CHEMIGATION Do not apply by chemigation to any crop using any type of irrigation system.

GENERAL NOTICE 9

See the table on page 5 in the main label for Small Volume Spray Equipment

GENERAL NOTICE 10

Apply to Cranberries only by sprinkler irrigation systems.

GENERAL NOTICE 11

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.

GENERAL NOTICE 12

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(R): 1-800-424-9300 For Product Use Information phone: AMVAC(R): 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.

GENERAL NOTICE 13

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.

TANK MIX INFORMATION

Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor. Read and follow the entire label of each product to be used in the tank mix with this product.

SPECIAL INSTRUCTIONS

Thoroughly clean all sprayer components prior to mixing. Add approximately 1/2 of the required amount of water to the spray tank and begin agitation. Add the required amount of ORTHENE 97 insecticide and mix thoroughly. Then add other tank mix partners or foliar feed additives and the remaining water. Maintain agitation during filling and spraying to ensure a uniform spray mixture. For application equipment which has minimal agitation, such as tobacco transplant water equipment, proper attention to mixing the ORTHENE 97 product should be given. With tobacco transplant water applications, the ORTHENE 97 product should be premixed in water to form a slurry prior to putting the product into the transplant water applicator. If premixing is not done, then adequate time should be allowed for the product to dissolve in the transplant water prior to beginning application.