

Orthene Turf, Tree & Ornamental WSP

Registrant: Amvac Chemical Corporation

GENERAL

EPA Registration Number:	5481-8971	Signal Word:	CAUTION
CA Registration Number:	5481-8971-AA		
Active Ingredient:	75 - Acephate	Application Methods:	Air, Chemigation, Ground
Label Version:	12640-20130327	Mode of Action:	IRAC 1B
Physical State:	Dry	Toxic To:	Bees, Birds, Wildlife
Product Type:	Insecticide	Rainfastness:	
Formulation Type:	Water-Soluble Powder OR Water-Soluble Packet		

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 #:	5481-8971-AA	CA Restricted:	No
CA NOI Required:	No		

REGISTERED FOR USE IN

PACKAGE TYPES

0.9 LB Package(s) 3X.3-LB (12 / Case)

3.5 LB Package(s) (12 / Case)

10 LB Package(s) (4 / Case)

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

SAFETY

PPE Information:	<p>PERSONAL PROTECTIVE EQUIPMENT (PPE): Some materials that are chemical-resistant to this product are butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils or neoprene \geq 14 mils. 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 such as butyl rubber \geq 14mils, nitrile rubber \geq 14 mils or neoprene \geq 14 mils, - Socks plus shoes. In addition, Mixers and Loader supporting hopper box seed treatments 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. In addition, 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.</p>
Re-Entry PPE Information:	<p>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.</p>
Transport Information:	<p>Transport information DOT Not regulated as dangerous goods. IATA Not regulated as dangerous goods. Read safety instructions, SDS and emergency procedures before handling. IMDG Not regulated as dangerous goods. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not established. Not applicable.</p>
Response Number:	800-424-9300
Medical Number:	888-681-4261
SDS Hazard ID Signal Word:	Warning

GENERAL NOTICE 1

See Engineering Controls for additional requirements. Engineering Controls: Water soluble packets, when used correctly, qualify as a closed mixing/loading system under the Worker Protection Standard for Agricultural Pesticides [40 CFR 170.240(d)(4)]. Mixers and loaders using water soluble packets must wear: the personal protective equipment required above for Mixer/Loaders, and must be provided, must have immediately available and must use in an emergency (such as a broken package, spill or equipment breakdown) the following PPE: coveralls, chemical-resistant footwear and 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. 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)]. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. As soon as possible, wash thoroughly and change into clean clothing. The use of human flaggers is prohibited.

GENERAL NOTICE 2

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. Exposed treated seed may be hazardous to birds and other wildlife. Dispose of all excess treated seed and seed packaging by burial away from bodies of water.

GENERAL NOTICE 3

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 4

WATER SOLUBLE PACKAGING MULTIPLE PACKAGING This bag contains multiple water soluble packets of Orthene Turf, Tree & Ornamental WSP. Do not handle the packets with wet gloves or allow the packets to become wet prior to addition to spray tank. Do not break open packets. Refer to the Tables of Equivalents to calculate the number of packets to use. If all packets are not used, close and reseal outer container to protect remaining packet(s). **SINGLE PACKAGING** This bag contains one water soluble packet of Orthene Turf, Tree & Ornamental WSP. Do not handle the packet with wet gloves or allow the packet to become wet prior to addition to spray tank. Do not break open packet. Refer to the Tables of Equivalents to calculate the number of packets to use. Open outer bag by pulling perforated tearstrip and drop the unopened inner packet of Orthene Turf, Tree & Ornamental WSP into spray tank. **PREPARATION OF SPRAY SOLUTION** To prepare spray solution, drop the unopened packet(s) of Orthene Turf, Tree & Ornamental WSP into a spray tank containing at least one half the total quantity of water required. Direct water at the floating packet(s) and continue to add water with the agitator running until the spray volume is reached. Do not add any liquid fertilizers, micronutrients or adjuvants to the spray solution until after the packet and its contents have completely dissolved. Water soluble packet(s) should completely dissolve in approximately five minutes. Dissolution rate may be slowed by cold water, lack of agitation or water containing high concentrations of boron or sulfur. Please see the tables about "TABLES OF EQUIVALENTS" located on the pages 4 of "Orthene Turf, Tree & Ornamental WSP" Master label.

GENERAL NOTICE 5

CHEMIGATION Apply to cranberries only by sprinkler irrigation systems. Do not apply by chemigation to any other crop, or this crop using any other type of irrigation system.

GENERAL NOTICE 6

SPRAY DRIFT MANAGEMENT A variety of factors including weather conditions, (e.g., wind direction, wind speed, temperature, relative humidity) and method of application (e.g., ground, aerial, airblast, chemigation) can influence pesticide drift. The applicator and grower must evaluate all factors and make appropriate adjustments when applying this product. 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. - All aerial, ground and air-assisted/airblast application equipment must be properly maintained and calibrated using water as 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. - Make applications when wind velocity favors on-target product deposition (approximately 3 to 10 mph). - Apply as close to target plants as practical to obtain a good spray pattern for adequate coverage. - For aerial applications, do not apply at heights greater than 10 feet (consistent with flight safety). - 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 aerial applications, the spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used and must not exceed 75% of wing span or rotor diameter. The boom width must not exceed 75% of the wingspan or 90% of the rotary blade. Use upwind swath displacement and apply only when wind speed is 3 to 10 mph as measured by an anemometer. Use medium or coarser spray according to ASAE 572 definition for standard nozzles or VMD for spinning atomizer nozzles. If application includes a no-spray zone, do not release spray at a height greater than 10 feet above the ground. - For ground boom applications apply with nozzle height no more than 4 feet above the ground or crop canopy 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 ASAE 572 definition for standard nozzles or VMD for spinning atomizer nozzles. The applicator also must use all other measures necessary to control drift.

GENERAL NOTICE 7

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(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 8

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION Harmful if swallowed.

GENERAL NOTICE 9

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.

GENERAL NOTICE 10

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 or dusts have settled.

GENERAL NOTICE 11

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION Harmful if swallowed.

GENERAL NOTICE 12

AGRICULTURAL USE REQUIREMENTS Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

GENERAL NOTICE 13

USE INFORMATION Orthene Turf, Tree & Ornamental WSP is an insecticide for control of pests on selected agricultural crops and in certain non-crop areas. The active ingredient in Orthene Turf, Tree & Ornamental WSP is acephate, a water-soluble insecticide readily absorbed by plant roots and foliage to give systemic control of feeding insects. Insect pests are generally controlled more effectively by Orthene Turf, Tree & Ornamental WSP through ingestion than by contact. Application of Orthene Turf, Tree & Ornamental WSP to maintain control should be repeated only as directed. FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR INSECT CONTROL, CROP INJURY AND/OR ILLEGAL RESIDUES. USE RESTRICTIONS - 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. - Not for indoor residential use. For greenhouse use, use is limited to commercial greenhouses for use on ornamental, floral, foliage plants and tobacco (floatbed application).

GENERAL NOTICE 14

PERSONAL PROTECTIVE EQUIPMENT (PPE): Some materials that are chemical-resistant to this product are butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils or neoprene \geq 14 mils. 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 such as butyl rubber \geq 14mils, nitrile rubber \geq 14 mils or neoprene \geq 14 mils, - Socks plus shoes. In addition, Mixers and Loader supporting hopper box seed treatments 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. In addition, 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.

GENERAL NOTICE 15

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.

GENERAL NOTICE 16

TANK MIXES NOTICE: 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.

TANK MIX INFORMATION**TANK MIXES**

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SPECIAL INSTRUCTIONS

To prepare spray solution, drop the unopened packet(s) of Orthene Turf, Tree & Ornamental WSP into a spray tank containing at least one half the total quantity of water required. Direct water at the floating packet(s) and continue to add water with the agitator running until the spray volume is reached.