

HARMFUL • ECOTOXIC

Keep out of reach of children

Orthene[®]

WSG

**Active Ingredient: 970 g/kg Acephate in the form
of a water soluble granule**

ORGANOPHOSPHATE INSECTICIDE

Broad spectrum systemic insecticide for use
on many vegetables, fruit crops and
ornamentals.

NET: 1kg

Registered pursuant to the ACVM Act 1997, No. P002041.

See www.foodsafety.govt.nz for registration conditions.

Approved pursuant to the HSNO Act. 1996, Approval Code HSR000155.

See www.epa.govt.nz for approval controls.



Distributed by:

Etec Crop Solutions an Arysta LifeScience Group Company.

www.arystalifescience.nz

AR189



HAZARD CLASSIFICATION**6.1D, 6.8B, 6.9A, 9.1D, 9.3B, 9.4A****APPROVED HANDLER**

This product must be under the control of an approved handler during use. This product must not be used for any purpose, or in any manner, contrary to this label unless authorized under appropriate legislation.

TOXICITY

May be harmful if swallowed, inhaled or absorbed through the skin. May cause reproductive/development damage from repeated oral exposure. May cause damage to the nervous system from repeated oral exposure at high doses.

ECOTOXIC

Harmful to aquatic organisms. Avoid contamination of any water supply with product or empty container.

Toxic to terrestrial vertebrates.

Very toxic to terrestrial invertebrates.

This product is very toxic to bees. Do not apply this product to any plant or tree likely to be visited by bees—

- (a) at the time of application; or
- (b) immediately after application until spray has dried; or
- (c) in areas where bees are foraging; or
- (d) if the plant or tree (except lemons) is or is likely to flower within 7 days after application of the substance.

HANDLING PRECAUTIONS**STORAGE**

Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs. Store in accordance with NZS 8409 Management of Agrichemicals. Stores containing 100kg of **ORTHENE WSG** require signage and more than 1000kg require emergency response plans.

PERSONAL PROTECTION

Do not breathe vapours or spray. When mixing, loading, spraying or re-entering treated areas within re-entry interval, wear full personal protective equipment (PPE): chemical resistant coveralls, gloves, footwear plus socks, and headgear for overhead exposure; protective eyewear; respiratory protective equipment to protect against respiratory exposure to mist and vapours. (PPE is not required where application is from a vehicle and the applicant is operating the vehicle from within a fully enclosed cab equipped with protective equipment to prevent contact with and inhalation of the substance.) Wash thoroughly with soap and water after handling and before eating, drinking or smoking. Wash protective clothing immediately after use.

When mixing or applying wear protective clothing such as waterproof hat and gloves, coat and trousers (worn outside rubber boots) and appropriate respiratory protection. Avoid inhalation of spray mist. Do not allow granules or spray mist to contact skin or eyes. Do not eat, drink or smoke while using. Remove protective clothing and wash face and hands thoroughly before meals and after work. Wash protective clothing daily after work.

SPRAY DRIFT MITIGATION: The person applying this substance must not cause adverse effects beyond the boundary of the treated property, and must also avoid adverse effects from spray drift occurring. Mitigation measures employed must be recorded as part of the application records.

NOTIFICATION: For wide-dispersive applications the product must not be applied unless written notice of the proposed applications has been given to any person likely to be directly affected by the application, including occupiers and owners of land, dwellings or buildings or property that is immediately abutting the application area. The notice must be given at least 2 working days but no more than 4 weeks in advance of each application and specify: the location of the application area; the date and approximate duration of each application; the steps to be taken by the notified parties to avoid exposure; the name of the organisation/s undertaking the application; contact details for the person in charge of the application (phone, email or postal address, including a contact number for immediate contact during application).

DISPOSAL

Recycle empty container. Otherwise crush and bury in a suitable landfill. Dispose of product only by using according to the label or at an appropriate landfill.

FIRST AID

If swallowed do NOT induce vomiting. For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or doctor immediately. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If in eyes, wash out immediately with water.

SPILLAGE

Wear appropriate protective clothing and prevent material from entering waterways. Sweep up solids without creating dust. Wash area with water and absorb with inert material. Dispose of waste safely in an approved landfill.

TRANSPORT

Do not carry more than 10kg of this product on a passenger service vehicle.

RECORD KEEPING

Records of use as described in NZS 8409 Management of Agrichemicals must be kept whenever **ORTHENE WSG** is used.

EQUIPMENT

Apply using well maintained and accurately calibrated equipment.

MIXING

Half fill the tank with water. With the agitator running, add the required amount of **ORTHENE WSG** and mix thoroughly until completely dissolved. Top off with the required amount of water.

COMPATIBILITY

ORTHENE WSG may be combined with most commonly used fungicides, adjuvants and insecticides, with the exception of strongly alkaline materials such as hydrated lime, Bordeaux mixture and lime sulphur.

SHELF LIFE

When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Contact your supplier for further information about the use of any product that is older than this.

CONDITION OF SALE:

CAUTION: READ THIS NOTICE BEFORE OPENING THE CONTAINER

If you open this container you will be deemed to have accepted the conditions below.

The results from use of this product may be affected by factors beyond Arysta LifeScience's control, including mixing, use, climatic conditions, time of application, crop or crop stage and the possible development of resistance to the active ingredient, even though the product is reasonably fit for the purposes stated in this label, and even though label directions are followed. Arysta LifeScience will replace, free of charge, any product which is found to have a manufacturing defect. To the extent permitted by law all other warranties, guarantees, representations and conditions, whether expressed or implied by law, trade, custom or otherwise are expressly excluded.

When you use this product, you agree that neither Arysta LifeSciences nor any manufacturer of any component of the product will be liable for any damage, injury or loss including consequential loss which arises in any way from the storage, handling, or use of the product. This exclusion of liability includes loss caused by negligent acts or omissions of Arysta LifeSciences or any supplier or manufacturer of the product or any of their employees and agents.

NOTICE TO BUYER: The manufacturer and vendors of **ORTHENE** warrant the formulation to contain the specified active ingredient within accepted tolerance but make no warranty of any kind on the uses of material and accept no responsibility, whether the material is used in accordance with the label directions or not.

PLEASE READ THE ENTIRE LABEL BEFORE USE

You must use a maximum of three applications of EITHER acephate OR methamidophos active ingredient containing product for the entire crop cycle.

Methamidophos residues can occur as a breakdown of acephate use on treated crops. It is recommended that use of acephate and methamidophos products in the same season on the same crops should be avoided to ensure compliance with maximum residue limits.

It is an offence to use this product off-label.

DIRECTIONS FOR USE

The rates suggested are for high volume spraying to run-off. Complete uniform coverage is essential. For concentrate spraying adjust dilution rate accordingly.

Crop	Pest	Rate	Notes
Avocados	Grass grub beetles Greedy scale Leafroller caterpillars Mealy bug	80g/100L Maximum 2.4kg/ha	Apply pre-flowering. Repeat at 100% petal fall and 3-4 week intervals until the end of April. Thereafter only if needed. Use no more than three applications per season. (Note: the addition of 1 litre of all-purpose spraying oil per 100 litres of spray mix is suggested where heavy infestations of mealybug or scale are known to exist. Observe label precautions when using an oil spray) For use on nursery seedlings. Repeat as required.
	Aphids	40g/100L Maximum 1.2kg/ha	
Boysenberries	Leathoppers	800g/ha	Apply immediately after harvest or later in the autumn before overwintering eggs are laid Use no more than three applications per season.
Cabbage Cauliflower	White butterfly Diamondback moth Green peach aphid	80g/100L Maximum 1.1kg/ha	To control caterpillars and aphids, apply at 7-10 day intervals after transplanting for a maximum of 3 times per crop cycle. The addition of a wetting agent is recommended to improve control
Citrus	Aphids Mealybug Leafroller Kelly's citrus thrips Citrus flower moth	80g/100L Maximum 1.6kg/ha	Apply at monthly intervals from petal fall to 14 days before harvest. Use no more than three applications per season. Where red scale is a problem a 1% oil spray should be applied with ORTHENE WSG in the pre and post flowering treatments. The use of oil sprays on tangelos after December may affect fruit finish.
Lettuce	Aphids Caterpillars	80g/100L Maximum 800g/ha	Apply as required for a maximum of 2 times per crop cycle.
Roses & other Ornamentals	Aphids Caterpillars	20-80g/ 100L	Apply at 2 weekly intervals. Use the higher rate where a higher level of control is required.
Tamarillos	Aphids Caterpillars Grass grub beetles	80g/100L Maximum 1.6kg/ha	Apply at first appearance of insects and repeat if necessary after 10 - 14 days. Use no more than three applications per season.
Tomatoes (outdoors only)	Caterpillars	80g/100L Maximum 800g/ha	Apply as a preventative treatment and repeat if required after 14 days. Use no more than two applications per crop cycle.

When this substance is applied indoors, application must be carried out using automated application equipment.

Re-Entry Interval

Do not allow entry into treated areas for 24 hours after treatment unless wearing (PPE) relevant protective clothing as described above.

It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.

WITHHOLDING PERIODS

Avocados – 28 days.

Citrus, lettuce, tamarillos, tomatoes (outdoors) – 14 days.

Cabbage, cauliflower – 7 days.

MAXIMUM APPLICATION RATE:

A maximum rate of 3500g/ha, with a 3 times crop cycle frequency has been set by the EPA

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EMERGENCY PHONE:

0800CHEMCALL

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