

**HARMFUL • ECOTOXIC**

**Keep out of reach of children**

**Orthene<sup>®</sup>**  
WSG

**Organophosphate insecticide**

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

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

**NET: 1kg**

**zelam**



Arysta LifeScience

Distributed by Zelum Ltd  
Hudson Rd, New Plymouth, NZ Tel: 06 755 9234

**HAZARD CLASSIFICATION**

6.1D, 6.7B, 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 authorised under appropriate legislation.

**TOXICITY**

Toxic – may cause damage to the nervous system from repeated oral exposure at high doses. Harmful – may be harmful if swallowed, inhaled or absorbed through the skin. Limited evidence of a carcinogenic effect in animal studies. May cause reproductive/development damage from repeated oral exposure.

**ECOTOXIC**

Harmful to aquatic organisms. Avoid contamination of any water supply with product or empty container. Very toxic to terrestrial invertebrates including bees. Spray must not contact plants from 7 days before flowering to petal fall if the plants are likely to be visited by bees. Toxic to terrestrial vertebrates.

**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.

**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).

**EQUIPMENT**

Apply using well maintained and accurately calibrated equipment. Only automatic application of this product is permitted indoors.

**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 a 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.

**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.

**PLEASE READ THE ENTIRE LABEL BEFORE USE**

**It is an offence for users of this product to cause residues exceeding the relevant MRL in the New Zealand Food Standards. It is an offence to use this product on animals.**

**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	Apply pre-flowering. Repeat at 100% petal fall and at 3-4 weekly intervals until the end of April. Thereafter only if needed. <b>(Note:</b> The addition of 1 litre of an 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	
Boysenberries	Leafhoppers	800g/ha	Apply immediately after harvest or later in the autumn before over wintering eggs are laid.
Cabbage Cauliflower	White butterfly Diamondback moth Green peach aphid	80g/100L (800g-1.1kg per ha)	To control caterpillars and aphids apply at 7-10 day intervals after transplanting. The addition of a wetting agent is recommended to improve control.
Citrus	Aphids Mealybug Leafroller Kelly's citrus thrips	80g/100L	Apply at monthly intervals from petal fall until 14 days before harvest. 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 (800g/ha)	Apply every 2 weeks or as required.
Potatoes	Aphids	200-600g/ha	Apply when aphids are first seen. Repeat after 10-14 days if necessary. Use the higher rates if aphid populations are high. When Orthene WSG is used against aphids the normal spray for the control of potato tuber moth may be omitted if the rate of Orthene WSG is increased to 800g/ha.
	Tuber moth	800g/ha	Apply at 10-14 day intervals beginning at the first appearance of foliage mining. Control of tuber mining is assisted by maintaining soil moisture at an adequate level by irrigation and by good soil coverage over the developing tuber.
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	Apply at first appearance of insects. Repeat as necessary at 10-14 day intervals.
Tomatoes	Caterpillars	80g/100L (800g/ha)	Apply fortnightly as a preventative programme.

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**Max application 3 times / crop cycle.**

**RE-ENTRY INTERVAL:** DO NOT re-enter treated crop for 24 hours after application.

**Toxic to bees.**

**WITHOLDING PERIODS:**

Avocados – 28 days.

Lettuce, tomatoes – 3 days.

Cabbage, cauliflower, potatoes – 7 days.

Citrus, tamarillos – 14 days.

**CONDITIONS OF SUPPLY:** READ THESE CONDITIONS OF SUPPLY BEFORE BUYING AND USING. IF THESE CONDITIONS ARE UNACCEPTABLE, RETURN AT ONCE UNOPENED. To the extent permitted by law Zelam does not accept any liability or responsibility whatsoever for any loss, damage or injury whether direct, indirect or consequential howsoever arising in connection with these goods, including without limitation their storage, application, handling or use. Zelam does not make any warranties (express or implied) with respect to fitness for purpose, merchantable quality or any other matter. To the extent only that Zelam is prevented by law from contracting out of the Consumer Guarantees Act, then these conditions apply subject to that Act. The Act shall not apply where these goods are acquired for business purposes. Registered pursuant to the ACVM Act 1997, No. P2041. See www.nzlsa.govt.nz/acvm/ for registration conditions. Approved pursuant to the HSNO Act 1996, Approval Code HSR000155. See www.ermanz.govt.nz for approval controls. © Orthene is a registered trademark of OMS Investments, Inc., USA, with exclusive licence to Arysta LifeScience Corporation.

**EMERGENCY PHONE:**

**0800CHEMCALL  
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Batch No.:

Date of Manufacture



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