



# SAFETY DATA SHEET

## ORTHENE® WSG

Date of Issue: 8 February 2019

### 1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

**Chemical name of active ingredient(s):** Acephate  
**Recommended use:** Insecticide. For use on many vegetables, fruit crops and ornamentals.  
**Supplier:** Etec Crop Solutions, an Arysta LifeScience Group Company.  
PO Box 51584  
Pakuranga, Auckland  
Phone 0800 100 325  
**Emergency telephone number:** 0800 CHEM CALL (0800 243 622)  
24 Hours

### 2. HAZARDS IDENTIFICATION

**Hazard Classification:**  
Toxic:  
6.1D – acute toxicant  
6.8B - reproductive or developmental toxicant  
6.9A - target organ toxicant  
Ecotoxic:  
9.1D - aquatic toxicant  
9.3B - terrestrial vertebrate toxicant  
9.4A – invertebrate toxicant  
**TOXICITY:**  
Harmful - 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.  
**ECOTOXICITY:**  
Harmful to aquatic organisms.  
Toxic to terrestrial vertebrates.  
Very toxic to terrestrial invertebrates.

**Required identification Details:**

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
Acephate	30560-19-1	97%

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## 4. FIRST-AID MEASURES

### Description of necessary first aid measures:

#### Effects and symptoms

#### First-aid measures

For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to mouth. Obtain medical attention.

#### Inhalation:

Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation.

Seek medical assistance immediately.

#### Ingestion:

Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764

766). Seek medical assistance immediately.

#### Skin contact:

Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water.

If a large area is affected seek medical assistance.

#### Eye contact:

Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance. Remove contact lenses, if present and easy to do.

#### First Aid Facilities

Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

#### Notes to a physician:

Treat symptomatically.

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## 5. FIRE-FIGHTING MEASURES

#### HAZCHEM Code:

2[Z]

#### Extinguishing media:

Water fog, foam, carbon dioxide or dry chemical.

**Unsuitable:** Water in a jet.

#### Hazardous thermal (de)composition products:

Thermal decomposition may release toxic oxides of phosphorous, nitrogen and sulphur.

Incomplete combustion can produce carbon monoxide and carbon dioxide

#### Protection of fire-fighters:

Full protective clothing and self-contained breathing apparatus.

#### Specific methods:

Keep up-wind. Do not allow washings to reach sewage or effluent systems.

#### Other Information:

Location Certificate: Not applicable

Hazardous Atmosphere Zone: Not applicable

Number of Fire Extinguishers: Not applicable

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## 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions:

For appropriate personal protective equipment (PPE), refer section 8.

#### Environmental precautions:

Prevent from entering drains, waterways or sewers.

**Spills and Disposal:**

Wear protective clothing. Clear area of unprotected personnel. Sweep up solids without generating dust (use water to dampen). Contain and absorb liquid spills with inert material and place in waste containers. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill.

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**7. HANDLING AND STORAGE****Safe Handling:**

Avoid skin and eye contact and inhalation of spray mist. APPROVED HANDLER: This product must be under the control of an approved handler when used by a commercial contractor.

TRACKING: Is not required

RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if more than 3kg is applied within 24 hours in a place where the product is likely to enter air or water and leave the place.

This product must not be applied onto or into water.

Keep out of reach of children.

**Conditions for safe storage, including any incompatibilities:**

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

Always read the label and any attached leaflet before use.

**Other Information**

Aggregate Storage Volume Thresholds:

When stored with substances of the same hazard classification the aggregate quantity must be considered.

For full details refer to the current NZS8409

Management of Agrichemicals and the HSNO Regulations.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Workplace Exposure Guidelines****Occupational exposure limits:**

No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.

As with all dusts the WES for particulates not otherwise classified = 10mg/m<sup>3</sup> inhalable dust, 3mg/m<sup>3</sup> respirable dust.

**Engineering measures****Appropriate engineering controls:**

Handle in well ventilated areas, generally natural ventilation is adequate. There should be sufficient ventilation to minimize dust exposure. Protect closed dust handling systems against possible dust explosions. Avoid dust accumulations on building or equipment surfaces. Keep containers closed when not in use.

**Personal Protective Equipment****Detail specifications for equipment:**

When opening the container, preparing spray and using the prepared spray wear safety goggles, waterproof gloves, cotton overalls buttoned to the neck and wrist, boots, and a NIOSH approved half face mask with organic vapour cartridge + dust/mist prefilter.

Do not eat, drink or smoke while using.

**General hygiene:**

Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Solid
<b>Colour:</b>	White
<b>Odour:</b>	Cabbage-like odour
<b>Volatile Component:</b>	NA
<b>Vapour Pressure:</b>	0.226 mPa
<b>Density:</b>	1.35
<b>Boiling Point:</b>	NA
<b>Solubility in water:</b>	Water soluble pellet.
<b>Partition Coefficient: n-octanol/water:</b>	Kow logP: -0.89
<b>pH:</b>	
<b>Flashpoint:</b>	NA
<b>Auto-ignition:</b>	
<b>Flammable Limits:</b>	
<b>Other Information:</b>	

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## 10. STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable under normal conditions of handling and storage.
<b>Conditions to avoid:</b>	Contact with alkaline products, including hypochlorite oxidants.
<b>Incompatible Materials:</b>	Strong oxidizing agents.
<b>Hazardous decomposition Products:</b>	Thermal decomposition may release toxic oxides of phosphorous, nitrogen and sulphur.
<b>Hazardous polymerization:</b>	Not known to occur.
<b>Specific Data:</b>	
<b>Hazardous reactions :</b>	

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## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity – Oral:</b>	LD50 (rat) = 866 mg/Kg
<b>Acute toxicity - Dermal:</b>	LD50 (rabbits) >2,000 mg/Kg
<b>Acute toxicity – Inhalation:</b>	LC50 (rat) > 15mg/L

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## 12. ECOLOGICAL INFORMATION

<b>Acute Toxicity – Fish:</b>	LC50 (96h) rainbow trout = >1,000 mg/L
<b>Soil DT50:</b>	3 – 6 days
<b>Terrestrial vertebrates - Birds:</b>	LD50 (Ringneck pheasant) = 140 mg/kg
<b>Terrestrial invertebrates - Bees:</b>	LD50 = 1.2µg/bee

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## 13. DISPOSAL CONSIDERATIONS

<b>Product disposal :</b>	Dispose of product only by using according to the label, or at
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**Container disposal:** an approved landfill.  
Ensure container is completely empty. Crush and bury in an appropriate landfill.

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#### 14. TRANSPORT INFORMATION - International transport regulations

It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.

<b>UN number:</b>	NA
<b>Class or Division:</b>	NA
<b>Hazchem Code:</b>	2Z
<b>Packing Group:</b>	NA
<b>Marine Pollutant:</b>	No
<b>Proper shipping name:</b>	Not Classified as a Dangerous Good for Transport (Acephate)
<b>IERG Number:</b>	47
<b>IMO Marine Pollutant:</b>	No
<b>IMDG EMS:</b>	Do not carry more than 3kg of ORTHENE WSG on a passenger service vehicle.
<b>Other Information:</b>	Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation. Refer NZS5433 sea segregation for details.

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#### 15. REGULATORY INFORMATION

<b>ACVM Registered Number:</b>	Registered pursuant to the ACVM Act 1997, No. P002041. See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration conditions.
<b>HSNO Approval Code:</b>	Approved pursuant to the HSNO Act 1996, Approval Code HSR000155. See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for approval controls.
<b>Packaging &amp; Labelling:</b>	WARNING - keep out of reach of children.

#### **Hazard Rating Systems:**

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#### 16. OTHER INFORMATION

<b>Additional information:</b>	<b>Original Issue Date:</b> 8/02/19 <b>Revision Date:</b>
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#### EXCLUSION OF LIABILITY: PLEASE READ

This Safety Data Sheet is based on the most recent information available. To the extent permitted by law, users of this information accept that neither the manufacturer, Etec Crop Solutions Limited as distributor, nor any other distributor have any liability or responsibility whatsoever for any loss, damage or injury whether in contract or tort, whether direct, indirect or consequential howsoever arising in connection with the supply of these information.