

# SAFETY DATA SHEET

## ORTHENE® WSG Insecticide

Date of Issue: 7 December 2021

### 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:** UPL New Zealand Limited  
 PO Box 51584, Pakuranga  
 Auckland  
 Phone 0800 100 325  
 www.upl-ltd.com/nz

**Emergency telephone number:** 0800 CHEM CALL (0800 243 622) 24 Hours

### 2. HAZARDS IDENTIFICATION



**Hazard Classification:** 6.1D, 6.8B, 6.9A, 9.1D, 9.3B, 9.4A  
**Required identification Details:** **WARNING:**  
 Keep out of the reach of children.  
 Read label carefully before use.  
 Any person purchasing, handling or disposing of this product must be suitably qualified.  
 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.  
 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

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
Acephate	30560-19-1	97
Ingredients determined to be nonhazardous		Balance

### 4. FIRST-AID MEASURES

**Description of necessary first aid measures:**

**General information:**

**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.

**Eye contact:**

If a large area is affected seek medical assistance. 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]

**Type of Hazard:**

**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

**Specific methods:**

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

**Protection of fire-fighters:**

Full protective clothing and self-contained breathing apparatus.

**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.

**Methods for cleaning up:**

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**

<b>Handling:</b>	Avoid skin and eye contact and inhalation of spray mist. APPROVED HANDLER: Any person purchasing, handling or disposing of this product must be suitably qualified. 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.
<b>Safe Storage:</b>	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. plans.
<b>Packaging materials:</b>	Always read the label and any attached leaflet before use 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

#### Exposure Standards:

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

#### Exposure control measures:

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.

#### Respiratory system:

#### Skin and body:

#### Hands:

#### Eyes:

#### 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

#### Physical State: Colour, Odour.

White solid. Cabbage-like odour.

#### pH:

Vapour Pressure:	0.226 mPa
Boiling Point:	NA
Flash Point:	
Freezing/Melting point:	
Solubility in water:	Water soluble pellet.
Specific gravity/Density:	1.35
Auto-ignition:	
Flammable limits:	
Flashpoint:	NA
Octanol/water partition coefficient:	Kow logP: -0.89
Explosive Properties:	
Oxidation Properties:	
Other:	

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## 10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of handling and storage.
Conditions to avoid:	Contact with alkaline products, including hypochlorite oxidants.
Materials to avoid:	Strong oxidizing agents.
Hazardous Decomposition Products:	Thermal decomposition may release toxic oxides of phosphorous, nitrogen and sulphur.
Hazardous polymerization:	Not known to occur.
Hazardous Reactions:	

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## 11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral:	LD <sub>50</sub> (rat) = 866 mg/Kg
Acute toxicity - Dermal:	LD <sub>50</sub> (rabbits) >2,000 mg/Kg
Acute toxicity – Inhalation:	LC <sub>50</sub> (rat) > 15mg/L
Ingestion:	
Skin irritation:	
Eye irritation:	
Respiratory Sensitization:	

### Chronic toxicity

Carcinogenicity:	
Subchronic/Chronic Toxicity:	
Other information :	

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## 12. ECOLOGICAL INFORMATION

Acute Toxicity:	
Aquatic	LC <sub>50</sub> (96h) rainbow trout = >1,000 mg/L
Bees:	LD <sub>50</sub> = 1.2µg/bee
Birds:	LD <sub>50</sub> (Ringneck pheasant) = 140 mg/kg
Soil DT50:	3 – 6 days
Bioaccumulative potential:	
Mobility:	

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## 13. DISPOSAL CONSIDERATIONS

Methods of disposal:	Dispose of product only by using according to the label, or at an approved landfill.
Empty container precautions:	Ensure container is completely empty. Crush and bury in an appropriate landfill.

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## 14. TRANSPORT INFORMATION - International transport regulations

**UN number:** NA  
**Hazchem** 2[Z]  
**Class or Division:** NA  
**Subsidiary Class:**  
**Packing Group:** NA  
**Marine Pollutant:** No  
**Proper shipping name:** Not Classified as a Dangerous Good for Transport (Acephate)

**Other Information:** Do not carry more than 3kg of ORTHENE WSG on a passenger service vehicle.  
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

**ACVM Registered Number:** Registered pursuant to the ACVM Act 1997, No. **P002041**.  
See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.  
**HSNO Approval Code:** Approved pursuant to the HSNO Act 1996, Approval Code **HSR000155**.  
See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls.

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## 16. OTHER INFORMATION

**Additional information:** **Original Issue Date:** 8 February 2019  
**Revision Date:** 7 December 2021  
**Replaces:** ES495

### **Disclaimer EXCLUSION OF LIABILITY: PLEASE READ**

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