

# Material Safety Data Sheet

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY:

PRODUCT NAME: **Orthene WSG**  
MANUFACTURER: Arysta LifeScience  
SUPPLIER NAME: Zelam Ltd  
SUPPLIER ADDRESS: 13-15 Hudson Rd, Bell Block, New Plymouth, New Zealand  
SUPPLIER PHONE: +64 6 7559234 SUPPLIER FAX: +64 6 7551174  
EMERGENCY PHONE: 0800 243 622, 0800 CHEMCALL INTERNATIONAL EMERGENCY PHONE: +64 3 353 0199  
CHEMICAL FAMILY: Organophosphorous USE: Insecticide

## 2. HAZARDS IDENTIFICATION:

6.1D; Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.  
6.7B; Harmful - suspected of causing cancer.  
6.8B; Harmful - may cause reproductive/development damage from repeated oral exposure.  
6.9A; Toxic - may cause organ damage from repeated oral exposure at high doses.  
9.1D; Harmful to fish/aquatic organisms with long-lasting effects. Avoid contamination of any water supply with product or packaging.  
9.3B; Toxic to terrestrial vertebrates [birds].  
9.4A; Very Toxic to terrestrial invertebrates [bees].  
Refer to Section 15 for ERMA Requirements.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Acephate	30560-19-1	97%	R22, S22, S36/37/38
Inerts		Balance	

## 4. FIRST - AID MEASURES:

EYE CONTACT: Immediately flush with flowing water for at least 15 minutes. Seek medical attention if irritation persists.  
SKIN CONTACT: Wash with plenty of soap and flowing water for at least 15 minutes while removing contaminated clothing. DO NOT scrub skin. Wash clothing before reuse.  
INHALATION: If inhaled, move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped. Use mouth to nose rather than mouth to mouth. Obtain medical attention.  
INGESTION: If swallowed, rinse mouth with water immediately. DO NOT induce vomiting. For advice contact the National Poisons Centre [0800 764 766]. Seek medical attention.

NOTES TO DOCTOR: Treat symptomatically. Cholinesterase inhibitor, Atropine is the specific antidote.

## 5. FIRE FIGHTING MEASURES:

FLASHPOINT: Not applicable HAZCHEM CODE: 2 [Z]  
FLAMMABLE LIMITS: Not available  
EXTINGUISHING MEDIA: Water spray (fog), Foam, Carbon dioxide, Dry chemical.  
THERMAL DECOMPOSITION PRODUCTS: Thermal decomposition may release toxic oxides of phosphorous, nitrogen and sulphur. Incomplete combustion can produce carbon monoxide and carbon dioxide.  
SPECIAL FIRE FIGHTING METHODS: Vapours may be toxic. Self contained breathing apparatus required. Do not allow contaminated run-off to enter drains.  
UNUSUAL FIRE OR EXPLOSION HAZARDS:

## 6. ACCIDENTAL RELEASE MEASURES:

Use appropriate protective equipment. Clear area of unnecessary personnel. Sweep up solids without generating dust.  
Large spill: Sweep up solids without generating dust, to a salvage container. If mixed with liquids, absorb the liquid mixture with clay granules, sand or other absorbent material and sweep to a waste container. Cover the spill area with water and absorb. Minimise runoff into waterways or drains. Dispose of waste at an approved landfill.

## 7. HANDLING AND STORAGE:

Harmful - Keep out of reach of children.  
Store in original container, tightly closed in a locked, cool, dry, well-ventilated place away from foodstuffs.  
Avoid the formation of dust, and avoid inhalation of mists or aerosols during use. Wash protective clothing daily after work.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: No exposure limits (WES, TEL, or EEL's) have been specifically assigned for this product.  
EYE PROTECTION: Chemical goggles or face shield where dust may be generated or splash may occur.  
RESPIRATORY PROTECTION: For short term exposure to mists and aerosols use a mask and filter eg. Filter A-P2 or a filter canister for organic vapours.  
PROTECTIVE CLOTHING: Wear protective clothing such as impervious gloves, waterproof hat, coat and trousers (worn outside rubber boots) when using. Wash protective clothing daily after work.  
VENTILATION: Handle in a well-ventilated area, generally natural ventilation is adequate. Avoid breathing dust.  
HYGIENE PRECAUTIONS: Do not eat drink or smoke while working with this product. Remove clothing that becomes soaked or contaminated and wash before reuse. Wash hands before breaks and after work. The use of a skin barrier cream is useful to give additional skin protection.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR:	Fine white pellets with distinctive cabbage-like odour.		
BOILING POINT:	Not applicable	pH:	Not available
DENSITY:	1.35	SETTING POINT:	Not applicable
DECOMPOSITION TEMP:	Not available	AUTOIGNITION TEMP:	Not available
FLASHPOINT:	Not applicable	VAPOUR DENSITY:	Not available
EXPLOSION PROPERTIES:	Not available	VAPOUR PRESSURE:	0.226 mPa [24 °C]
SOLUBILITY:	Water soluble pellet.		
OTHER DATA:			
OCTANOL / WATER PARTITION COEFFICIENT:	Kow logP = -0.89		

## 10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID:	Product is stable under normal temperatures and pressures.
MATERIALS TO AVOID:	Contact with alkaline products, including hypochlorite oxidents.
HAZARDOUS DECOMPOSITION	Thermal decomposition may release toxic oxides of phosphorous, nitrogen and sulphur.

## 11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL:	LD50 Rats: 866 mg/Kg
ACUTE DERMAL:	LD50 Rabbits: >2000 mg/Kg
ACUTE INHALATION:	LC50 Rats: >15 mg/L

### OTHER TOXICITY INFORMATION:

May be harmful if swallowed, inhaled or absorbed through the skin.  
Suspected of causing cancer. May cause reproductive/development damage from repeated oral exposure and may cause organ damage from repeated oral exposure at high doses.

## 12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: LC50 (96h) Rainbow trout; >1000 mg/L.  
Soil DT50; 3 - 6 days.  
Terrestrial Vertebrates - Birds: LD50 Ringneck pheasant; 140 mg/kg.  
Terrestrial Invertebrates - Bees: LD50; 1.2 µg/bee

Harmful to fish/aquatic organisms with long-lasting effects. Avoid contamination of any water supply with product or packaging.  
Toxic to terrestrial vertebrates [birds].  
Very Toxic to terrestrial invertebrates [bees]. Spray must not be applied to plants in flower, or are likely to flower within 7 days, if they are likely to be visited by bees.

## 13. DISPOSAL CONSIDERATIONS:

Triple rinse empty container and add rinsate to the spray tank. If recycling, discard cap and deliver clean container to an Agrecovery depot. Alternatively crush and bury in an approved landfill.  
Dispose of product only by using according to this label, or at an approved disposal facility.  
Avoid contamination of any water supply or stream with product or empty container.

## 14. TRANSPORT INFORMATION:

Proper Shipping Name:	Not Classified as Dangerous Goods for Transport (Acephate)		
UN Number:	N/A	UN Hazard Class:	N/A
Packing Group:	N/A	Hazchem Code:	2 [Z]

Additional Information: It is good practice to separate this product from food, food related materials, animal feedstuffs, seed or fertilizer during storage and transport.

## 15. REGULATORY INFORMATION:

APPROVED HANDLER: The product must be under the personal control of an approved handler when:

- the product is applied in a wide dispersive manner; or
- used by a commercial contractor.
- applied directly onto or into water.

However, it may be handled by a person who is not an approved handler if:

- an approved handler is present at the facility where the substance is being handled; and
- the approved handler has provided guidance to the person in respect to the handling of the product; and
- the approved handler is available at all times to provide assistance if necessary.

This product must not be applied to plants in flower, or are likely to flower within 7 days, if they are likely to be visited by bees.

RECORD KEEPING: A written record of use is required if 3 kg or more of this product is used within 24 hours in a place where:

- public may lawfully be present; or
- the substance is likely to enter air or water and leave the place where it is under control.

The information must be kept for a minimum of three [3] years.

Approved pursuant to the HSNO Act 1996. NZ EPA Approval Code: HSR000155 See <www.epa.govt.nz> for controls.  
Registered pursuant to the ACVM Act 1997. ACVM Pesticide No: P002041 See <www.nzfsa.govt.nz> for registration conditions.

## 16. OTHER INFORMATION:

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the product's properties.