

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** YATES SUCCESS NATURALYTE INSECT CONTROL

**Recommended Use:** Naturally derived insecticide for the control of caterpillars on various home garden fruit and vegetables.

**Supplier:** Yates, a Division of Orica Australia Pty Ltd  
**ABN:** 99 004 117 828  
**Street Address:** 1 Gow Street,  
Padstow, NSW 2211  
Australia

**Telephone Number:** +61 2 9781 8800  
**Facsimile:** +61 2 9794 9700  
**Emergency Telephone:** **1 800 033 111 (ALL HOURS)**

## 2. HAZARDS IDENTIFICATION

Based on available information, not classified as hazardous according to criteria of Safe Work Australia; NON-HAZARDOUS SUBSTANCE.

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

**Poisons Schedule:** None allocated.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion	Risk Phrases
Inerts	-	99%	-
Spinosad	168316-95-8	1%	R50

## 4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

### Inhalation:

Remove victim from area of exposure - avoid becoming a casualty. Seek medical advice if effects persist.

### Skin Contact:

If skin contact occurs, remove contaminated clothing and wash skin with running water. If irritation occurs seek medical advice.

### Eye Contact:

If in eyes, wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

### Ingestion:

Rinse mouth with water. If swallowed, give a glass of water to drink. Seek medical advice.

### Medical attention and special treatment:

Treat symptomatically.

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## 5. FIRE FIGHTING MEASURES

**Hazards from combustion products:**

Non-combustible material.

**Suitable Extinguishing Media:**

Not combustible, however, if material is involved in a fire use: Media applicable to surrounding fire.

**Hazchem Code:** 2X

## 6. ACCIDENTAL RELEASE MEASURES

**Emergency procedures:**

If contamination of sewers or waterways has occurred advise local emergency services.

**Methods and materials for containment and clean up:**

Wear protective equipment to prevent skin and eye contact. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers.

## 7. HANDLING AND STORAGE

**Conditions for safe storage:**

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Keep containers closed when not in use - check regularly for spills.

**Precautions for safe handling:**

Keep out of reach of children. Avoid skin and eye contact and breathing in vapour, mists and aerosols.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits:** No value assigned for this specific material by the National Occupational Health and Safety Commission.

**Engineering controls:**

Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

**Personal Protective Equipment:**

When mixing or applying, wear eye protection and waterproof gloves. Do not eat, drink or smoke when using. Remove protective equipment immediately after handling this product and wash hands and face.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Colour:</b>	Off-white
<b>Odour:</b>	Minimal
<b>Solubility:</b>	Miscible in water.
<b>Specific Gravity:</b>	1.01
<b>Relative Vapour Density (air=1):</b>	N Av
<b>Vapour Pressure (20 °C):</b>	N Av
<b>Flash Point (°C):</b>	N App
<b>Boiling Point/Range (°C):</b>	100 (water)

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# Material Safety Data Sheet



pH: N Av  
Evaporation Rate: N Av

## 10. STABILITY AND REACTIVITY

**Chemical stability:** Stable under normal conditions of use.  
**Conditions to avoid:** Avoid exposure to heat.  
**Incompatible materials:** None known.  
**Hazardous decomposition products:** Oxides of carbon. Oxides of nitrogen.  
**Hazardous reactions:** Hazardous polymerisation will not occur.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

**Ingestion:** No adverse effects expected.  
**Eye contact:** May be an eye irritant.  
**Skin contact:** Contact with skin may result in irritation.  
**Inhalation:** Breathing in mists or aerosols may produce respiratory irritation.

### Long Term Effects:

Evidence indicates that repeated or prolonged exposure to this chemical could result in target organ damage.

**Toxicological Data:** No LD50 data available for the product. For Spinosad technical (1):

Oral LD50 (rat): 3783 mg/kg (male); >5000 mg/kg (female)

Dermal LD50 (rabbit): >2000 mg/kg

Long term carcinogenicity studies in rats and mice showed no increase in tumours when compared to an untreated group. Studies in rats and rabbits indicates that Spinosad does not cause birth defects or interfere with reproduction.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Avoid contaminating waterways and fishponds. Do not spray over bees or plants in flower. Do not allow spray to drift onto aquatic environments, other crops or desirable plants or outside the target area. For Spinosad (1):

**Persistence/degradability and mobility** The material has low potential for bioaccumulation.

**Aquatic toxicity:** Harmful to aquatic organisms.

48hr EC50 (Daphnia magna): 14 ppm

96hr LC50 (rainbow trout): 30 mg/L

**Terrestrial toxicity:** Toxic to bees.

>2000 mg/kg

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## 13. DISPOSAL CONSIDERATIONS

### Disposal methods:

Refer to local government authority for disposal recommendations. Rinse empty container, puncture and recycle or dispose of safely with domestic rubbish.

## 14. TRANSPORT INFORMATION

### Road and Rail Transport

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

**UN No:** 3082  
**Class-primary:** 9 Miscellaneous Dangerous Goods  
**Packing Group:** III  
**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS SPINOSAD)  
**Hazchem Code:** 2X

### Marine Transport

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

This material is classified as a Marine Pollutant (P) according to the International Maritime Dangerous Goods Code.

**UN No:** 3082  
**Class-primary:** 9 Miscellaneous Dangerous Goods  
**Packing Group:** III  
**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS SPINOSAD)

### Air Transport

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

**UN No:** 3082  
**Class-primary:** 9 Miscellaneous Dangerous Goods  
**Packing Group:** III  
**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS SPINOSAD)

## 15. REGULATORY INFORMATION

**Classification:** Based on available information, not classified as hazardous according to criteria of Safe Work Australia; NON-HAZARDOUS SUBSTANCE.

**Poisons Schedule:** None allocated.

This product is registered in Australia by the Australian Pesticides & Veterinary Medicines Authority (APVMA).

## 16. OTHER INFORMATION

(1) In: 'The Pesticide Manual'. 13th Edition. Ed. CDS Tomlin. British Crop Protection Society, 2003.

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# Material Safety Data Sheet



**Reason(s) for Issue:**

Revised Primary MSDS

Format change

Change to Transport Information

This material safety data sheet has been prepared by SH&E Shared Services, Orica.

This MSDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Orica Limited cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material. If clarification or further information is needed, the user should contact their Orica representative or Orica Limited at the contact details on page 1. Orica Limited's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

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