

**Material Safety Data Sheet**

A09505/03

**Product Name** BAYER ROSE & ORNAMENTAL SPRAY GARDEN INSECTICIDE FUNGICIDE**Statement of Hazardous Nature**

Not classified as hazardous according to criteria of the National Occupational Health and Safety Commission

**Company Address:** Bayer Australia Limited                      Emergency Phone 1800 033 111  
 875 Pacific Highway    (24 Hrs Toll Free)  
 PYMBLE NSW 2073    Phone (02) 9391-6000

**Identification****Product Name** BAYER ROSE & ORNAMENTAL SPRAY GARDEN INSECTICIDE FUNGICIDE

<b>Issued</b>	1/4/1998	<b>Supersedes</b>			
<b>UN No</b>	1950	<b>Hazardous?</b>	No	<b>Hazchem</b>	2Y
<b>DG Class</b>	2	<b>Poison Schedule</b>	Exempt	<b>Prod. Code</b>	20443
<b>Sub Risk</b>	None	<b>Packing Group</b>	None	<b>EPG No</b>	2D1

**Uses** Home garden fungicide and insecticide for use on roses and/or ornamentals as specified on the label.

Product Descriptor: BAYER ROSE &amp; ORNAMENTAL SPRAY

Proper Shipping Name: AEROSOLS (bitertanol and cyfluthrin)

Chemical Characterisation: (1) 0.75 g/kg bitertanol  
 1-(biphenyl-4-yloxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-yl)  
 Chemical Group: triazole derivative

(2) 0.2 g/kg cyfluthrin  
 (Cyano-(4-fluro-3-phenoxyphenyl-methyl-3-(2,2-dichloethenyl)-2,2-dimethylcyclopropanecarboxylate)  
 Chemical Group: synthetic pyrethroid

**Physical Description/Properties**

Form: aerosol  
 Colour: colourless  
 Odour: weak characteristic odour  
 Density: ca. 0.65 at 20/4 degrees C

**Ingredients**

<b>Chemical</b>	<b>CAS No.</b>	<b>Proportion</b>
Bitertanol	55179-31-2	0.75 g/kg
Cyfluthrin	68359-37-5	0.2 g/kg
Ethanol	64-17-5	High
Propane/butane		High

Proportion (% weight/weight): High = 30-60%

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**Health Hazards**

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**Health Effects**

No adverse health effects are expected if this product is used in accordance with the label.

Chronic: No long term effects in humans are known. Laboratory studies show no oncogenic potential in animals.

**First Aid**

If poisoning occurs contact a doctor or Poisons Information Centre.

**Swallowed**

If sprayed in mouth give milk or water.

**Skin**

If sprayed on skin wash thoroughly with soap and water.

**Eye**

If in eyes hold eyes open and wash continually with water for 15 minutes.

**Advice to Doctor**

Apply basic aid and decontamination procedures.

Antidote: none known

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**Precautions for Use**

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**Exposure Standards**

NOHSC exposure standards have not been assigned for the active ingredient in this formulation.

Butane: TWA (mg/cubic metre) STEL (mg/cubic metre) 1900

This exposure standard is for an eight hour day. Use of this product in the home garden is for short periods only and, moreover, the level of exposure would be unlikely to reach this level.

**Engineering Controls**

Not applicable.

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**Precautions for Use**

**(Continued)**

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**Personal Protection**

**Personal Protective Measures:**

Avoid contact with eyes, skin and clothing. Do not inhale spray. Do not spray directly on humans, pets, exposed foods, food utensils or food preparation surfaces.

Personal Protective Equipment: not applicable.

**Industrial Hygiene:**

If sprayed on skin immediately wash the area with soap and water. After use and before eating, drinking or smoking, wash hands. Do not puncture or incinerate can, even when empty.

**Flammability**

**Protection Against Fire:**

Do not puncture or incinerate can. Highly flammable. Keep away from naked flame.

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**Safe Handling Information**

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**Storage**

Keep out of reach of children. Store at normal room temperature. Do not store or use near fire or flame. Do not store in sunlight. Contents are under pressure.

**Transport**

Classification according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code)

Shipping name: AEROSOLS (bitertanol and cyfluthrin)

Packing group: None UN No: 1950

DG Class: 2 Sub Risk: None Hazchem: 2Y

**Dangerous Goods / Hazardous Substances Regulation**

This product is subject to the following regulations:

- Australian Code for the Transport of Dangerous Goods by Road and Rail
- State/Territory Storage of Dangerous Goods Regulations
- State/Territory Hazardous Substances Regulations

**Spills**

Spill from an aerosol is unlikely.

**Disposal**

Aerosol should be completely empty before disposal. Place used can in household rubbish. Do not puncture or incinerate can even when empty.

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**Safe Handling Information**

**(Continued)**

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**Fire/Explosion Hazard**

Dangerous Decomposition or Combustion Products:

Thermal Decomposition:

Hazardous polymerisation will not occur.

Hazardous Decomposition Products:

If involved in a fire, oxides of nitrogen, hydrochloric acid and phosphorus pentoxide may be emitted.

Extinguishing Media: water fog

Further Information:

Special firefighting procedures: Wear full protective clothing and self-contained breathing apparatus. Extinguish any possible sources of ignition if safe to do so.

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**Other Information**

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**Information on Toxicity**

(i) Bitertanol:

LD50 Oral (ingestion) - rat: >5000 mg/kg (formulated product) i.e. practically non-toxic

LD50 Dermal (skin contact) - rat: >5000 mg/kg (formulated product) i.e. practically non-toxic

LC50 Inhalation (4h exp) - rat: >550 mg/cubic metre air (active ingredient) i.e. practically non-toxic

(ii) Cyfluthrin:

LD50 Oral (ingestion) rat: 500-800 mg/kg (formulated product) i.e. harmful

LD50 Dermal (skin) rat: >5000 mg/kg (formulated product) i.e. practically non-toxic

**Information on Ecological Effects**

(i) Bitertanol

Fish toxicity: LC50 (96h exposure)

rainbow trout 2.2 ppm

bluegill sunfish 2.1 ppm

Bird toxicity: LD50

Mallard duck 2000 mg/kg

(ii) Cyfluthrin

Fish toxicity: LC50 (96h exposure)

rainbow trout 0.6 ug/L

golden orfe 3.2 ug/L

bluegill sunfish 1.5 ug/L

Harmful to fish. Cover fish tanks and remove caged birds and pets from treatment area before using. Do NOT allow chemical containers or spray to get into drains, sewers, streams or ponds.

Do NOT spray when bees are feeding on flowering plants.

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**Contact Point (for non-emergency calls)**

Product safety coordinator of Business Group: Crop Protection

Telephone Number: (02) 9391-6000

**DISCLAIMER**

This Material Safety Data Sheet has been developed according to the WORKSAFE/NOHSC Code of Practice.

The data, information and recommendations herein ("information") are represented in good faith and believed to be correct as of the date hereof.

The purpose of this Material Safety Data Sheet is to describe product in terms of their safety requirements.

Bayer Australia Limited makes no representation of merchantability, fitness for a particular purpose or application, or of any other nature with respect to the information or the product to which the information refers ("the product").

The information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purpose prior to the use of the product.

The physical data shown herein are typical values based on the material tested. These values should not be construed as a guaranteed analysis of any specific lot or as guaranteed specification for the product or specific lots thereof.

Due care should be taken to make sure that the use or disposal of this product and/or its packaging is in compliance with relevant Federal, State and Local Government regulations.