

MATERIAL SAFETY DATA SHEET

Bayer Rose & Ornamental Spray Garden Insecticide Fungicide

Date of Issue: April 20th, 2007

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product name: Bayer Rose & Ornamental Spray Garden Insecticide Fungicide
Other names: None
Product code: 4942786
Recommended use: Home garden fungicide and insecticide for use on roses and/or ornamentals as specified on the label.
Supplier: Bayer Environmental Science – A Business Group of Bayer CropScience Pty Ltd
ABN 87 000 226 022
Address: 391 - 393 Tooronga Road, East Hawthorn
Victoria 3123, Australia
Telephone: (03) 9248 6888
Facsimile: (03) 9248 6800
Website: www.bayercropscience.com.au
Contact: Technical Manager (03) 9248 6888
Emergency Telephone Number: 1800 033 111 – Orica SH&E Shared Services

2. HAZARDS IDENTIFICATION

NON-HAZARDOUS SUBSTANCE - DANGEROUS GOOD

Flammable.

Hazard designation: Not classified as hazardous according to the criteria of Worksafe Australia
Risk phrases: Not applicable
Safety phrases: Not applicable
ADG classification: Class 2.1
SUSDP classification: Exempt

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (g/kg):
Bitertanol	[55179-31-2]	0.75
Cyfluthrin	[68359-37-5]	0.2
Ethanol	[64-17-5]	High
Propane/butane		High

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

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4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (Telephone 13 11 26), and follow the advice given. Show this Material Safety Data Sheet to a doctor.

Inhalation:	No information is available. Inhalation of large quantities of the aerosol spray may be harmful. Deliberate inhalation of any aerosol may be fatal. Keep patient under observation.
Skin contact:	If sprayed on skin, wash thoroughly with soap and water.
Eye contact:	If in eyes hold eyes open and wash continually with water for 15 minutes.
Ingestion:	If sprayed in mouth give milk or water.
First Aid Facilities:	Provide washing facilities in the workplace.
Symptoms:	No specific symptoms.
Medical attention:	Apply basic aid and decontamination procedures. Antidote: none known

5. FIRE FIGHTING MEASURES

Extinguishing media:	Water Fog
Hazards from combustion products:	If involved in a fire, oxides of nitrogen and carbon, hydrogen chloride and hydrogen cyanide, may be emitted.
Precautions for fire fighters:	Wear full protective clothing and self-contained breathing apparatus. Extinguish any possible sources of ignition if safe to do so.

6. ACCIDENTAL RELEASE MEASURES

Spills from an aerosol are unlikely

7. HANDLING AND STORAGE

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

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure standards: NOHSC exposure standards have not been assigned for the active ingredients in this formulation.
Butane: TWA = 1900 mg/m³
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

Personal Protective Equipment: 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colourless aerosol
Odour: Weak characteristic odour
Vapour pressure: Not available
Vapour density: Not available
Boiling point: Not available
Freezing/melting point: Not available
Solubility: Not available
Density: ca. 0.65 at 20/4° C
pH: Not available
Flash Point: Not available
Flammability (explosive) limits: Not available
Auto-ignition temperature: Not available
Octanol/water partition coefficient: Not available
Formulation: Aerosol

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10. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use.
Hazardous polymerisation:	Hazardous polymerisation will not occur.
Conditions to avoid:	Do not puncture or incinerate can. Highly flammable. Keep away from naked flame.
Incompatible materials:	Not available
Hazardous decomposition products:	If involved in a fire, hydrogen cyanide, hydrogen chloride, and oxides of carbon and nitrogen may be emitted.

11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

Inhalation:	Deliberate inhalation of an aerosol can be fatal. No specific symptoms related to accidental inhalation can be expected.
Skin contact:	No specific symptoms expected.
Eye contact:	No specific symptoms expected.
Ingestion:	No specific symptoms expected.
Other:	None

ANIMAL TOXICITY DATA – PRODUCT: No data available for the product.

ANIMAL TOXICITY DATA – INDIVIDUAL INGREDIENTS:

Acute:

Oral toxicity:	Bitertanol LD ₅₀ rat: >5000 mg/kg (formulated product) i.e. practically non-toxic Cyfluthrin: LD ₅₀ rat: 500-800 mg/kg (formulated product) i.e. harmful
Dermal toxicity:	Bitertanol LD ₅₀ rat: >5000 mg/kg (formulated product) i.e. practically non-toxic Cyfluthrin LD ₅₀ rat: >5000 mg/kg (formulated product) i.e. practically non-toxic
Inhalation toxicity:	Bitertanol LC ₅₀ (4 h) rat: >550 mg/cubic metre air (active ingredient) i.e. practically non-toxic
Skin irritation:	Not available
Eye irritation:	Not available
Sensitisation:	Not available

Chronic:

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

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12. ECOLOGICAL INFORMATION

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.

Fish toxicity:	Bitertanol: LC ₅₀ : 2.2 ppm rainbow trout LC ₅₀ : 2.1 ppm bluegill sunfish Cyfluthrin: LC ₅₀ : 0.6 µg/L rainbow trout LC ₅₀ : 3.2 µg/L golden orfe LC ₅₀ : 1.5 µg/L bluegill sunfish
Daphnia toxicity:	Bitertanol: LC ₅₀ (48h): >1.8 – 7 mg/L Cyfluthrin: LC ₅₀ (48h): 0.00016 – 0.0027 mg/L
Toxicity to algae:	Bitertanol: E _r C ₅₀ : 0.31 mg/L Cyfluthrin: E _r C ₅₀ : >10 mg/L
Bird toxicity:	Bitertanol: LD ₅₀ : 2000 mg/kg Mallard duck LD ₅₀ : >10 000 mg/kg Japanese quail Cyfluthrin: LD ₅₀ : >2000 mg/kg bobwhite quail
Bee toxicity:	Bitertanol: LD ₅₀ (oral): >104.4 µg/bee; (contact): >200 µg/bee Cyfluthrin: Toxic to honeybees
Other:	None
Environmental fate, persistence and degradation:	Mobility of bitertanol in soil is low. The leaching behaviour of cyfluthrin is classified as immobile.

13. DISPOSAL CONSIDERATIONS

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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14. TRANSPORT INFORMATION

UN number: 1950
Proper shipping name: AEROSOLS
Class and Subsidiary Risk: Class 2.1
Packing Group: None
EPG: 2D1
Hazchem code: 2Y
Marine Pollutant: No

15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Act 1988

Australian Pesticides and Veterinary Medicines Authority Approval Number: 49669

16. OTHER INFORMATION

Trademark information:

Preparation information: Replaces October 20th, 2002 edition.
Reason for update: Ecological information

Data sources: Bayer CropScience Pty Ltd product safety data and published data

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

END OF MSDS