

Safety Data Sheet



1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **BAYTHROID GARDEN INSECTICIDE SPRAY**

Recommended Use: Insecticide for the control of insect pests on ornamentals, vegetables and native plants in the home garden. Packed as an aerosol.

Supplier: Yates Australia, a division of DuluxGroup (Australia) Pty Ltd
ABN: 67 000 049 427
Street Address: 1 Gow Street,
Padstow, NSW 2211
Australia
Telephone Number: +61 2 9781 8777
Facsimile: +61 2 9781 8825
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.

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

Poisons Schedule: None allocated.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion	Risk Phrases
Propellant (propane/butane)	-	30-60%	R12
Ethyl alcohol	64-17-5	30-60%	R11
Cyfluthrin	68359-37-5	0.2 g/L	R23 R28 R50/53

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. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If patient finds breathing difficult and develops a bluish discolouration of the skin (which suggests a lack of oxygen in the blood - cyanosis), ensure airways are clear of any obstruction and have a qualified person give oxygen through a face mask. Apply artificial respiration if patient is not breathing. Seek immediate medical advice. Seek immediate medical advice.

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.

Product Name: BAYTHROID GARDEN INSECTICIDE SPRAY
Substance No: 000000020739

Issued: 19/08/2008
Version: 1

Safety Data Sheet

**Ingestion:**

If swallowed, do NOT induce vomiting. Give a glass of water. Seek immediate medical assistance.

Medical attention and special treatment:

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Hazards from combustion products:

Flammable gas. On burning will emit toxic fumes, including those of hydrogen chloride, hydrogen fluoride, oxides of carbon and oxides of nitrogen.

Precautions for fire fighters and special protective equipment:

Keep containers cool with water spray. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

Suitable Extinguishing Media:

Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

Hazchem Code: 2YE

6. ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and clean up:

Shut off all possible sources of ignition. In the event of an aerosol can developing a leak, allow to fully discharge in the open air before disposal.

7. HANDLING AND STORAGE

Conditions for safe storage:

Store in cool place and out of direct sunlight. Store away from oxidising agents. Store away from sources of heat or ignition. Keep containers closed when not in use - check regularly for leaks.

Precautions for safe handling:

Keep out of reach of children. Avoid skin and eye contact. Ensure spray nozzle is always directed away from the user. Flammable - use away from sources of heat and ignition. May form flammable vapour mixtures with air. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke. Vapour may travel a considerable distance to source of ignition and flash back.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: No value assigned for this specific material by the National Occupational Health and Safety Commission. However, Exposure Standard(s) for constituent(s):

Butane: 8hr TWA = 1900 mg/m³ (800 ppm)

Ethyl alcohol: 8hr TWA = 1880 mg/m³ (1000 ppm)

Propane: Asphyxiant

Safety Data Sheet



As published by the National Occupational Health and Safety Commission.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

Asphyxiant - gases which can lead to reduction of oxygen concentration by displacement or dilution. The minimum oxygen content in air should be 18% by volume under normal atmospheric pressure.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Engineering controls:

Use in well ventilated areas. Vapour heavier than air - prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapour may have collected. Keep containers closed when not in use.

Personal Protective Equipment:

No special personal protective equipment required. Always wash hands before smoking, eating, drinking or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Aerosol
Solubility:	Insoluble in water.
Specific Gravity:	0.65
Relative Vapour Density (air=1):	>1
Vapour Pressure (20 °C):	300-1400 kPa (propane)
Flash Point (°C):	-104 (propane)
Flammability Limits (%):	N Av
Autoignition Temperature (°C):	N Av
% Volatile by Volume:	N Av
Solubility in water (g/L):	Insoluble
Melting Point/Range (°C):	N App
Boiling Point/Range (°C):	-42 (propane)
Decomposition Point (°C):	N Av
pH:	N App
Viscosity:	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, sources of ignition, and open flame.
Incompatible materials:	Incompatible with oxidising agents.
Hazardous decomposition products:	Hydrogen chloride. Hydrogen fluoride. 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:	Not a likely route of exposure. No adverse effects expected, however, large amounts may cause nausea and vomiting.
Eye contact:	May be an eye irritant.
Skin contact:	Contact with skin may result in irritation.
Inhalation:	Material may be irritant to the mucous membranes of the respiratory tract (airways). Intentional misuse by deliberately concentrating and breathing the contents can be harmful or fatal.

Long Term Effects:

No information available for the product.

Toxicological Data: No LD50 data available for the product. However, for constituent(s) (1):

Oral LD50 (rat): 590-1189 mg/kg (cyfluthrin);

Dermal LD50 (rat): >5000 mg/kg (cyfluthrin)

Inhalation LC50 (rat): 496-592 mg/m³/4hrs (cyfluthrin)

12. ECOLOGICAL INFORMATION

Ecotoxicity	Avoid contaminating waterways.
Aquatic toxicity:	Toxic to fish.
Terrestrial toxicity:	Toxic to bees. Do not spray on plants while bees are foraging.

13. DISPOSAL CONSIDERATIONS

Disposal methods:

Do not puncture or burn can when empty; contents are under pressure. If aerosol can develops a leak, allow to fully discharge before disposal. Normally suitable for disposal at approved land waste site.

14. TRANSPORT INFORMATION

Safety Data Sheet



Road and Rail Transport

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

UN No: 1950
Class-primary: 2.1 Flammable Gas
Proper Shipping Name: AEROSOLS
Hazchem Code: 2YE

Marine Transport

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

UN No: 1950
Class-primary: 2.1 Flammable Gas
Proper Shipping Name: AEROSOLS

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: 1950
Class-primary: 2.1 Flammable Gas
Proper Shipping Name: AEROSOLS, FLAMMABLE

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) Supplier Material Safety Data Sheet; 10/ 2002.

Reason(s) for Issue:

Revised Primary MSDS

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

This SDS 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 DuluxGroup 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 DuluxGroup representative or DuluxGroup Limited at the contact details on page 1.

DuluxGroup 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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