

Material Safety Data Sheet

A09518/01

Product Name BULLDOCK DUO INSECTICIDE

Statement of Hazardous Nature

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 BULLDOCK DUO INSECTICIDE

Issued 7/7/2000	Supersedes		
UN No None	Hazardous? Yes	Hazchem None	
DG Class None	Poison Schedule S6	Prod. Code 2419398	
Sub Risk None	Packing Group None	EPG No None	

Uses Agricultural insecticide for the control of insect pests as specified on the product label.

Product Descriptor: Bulldock Duo Insecticide

Proper Shipping Name: None

Chemical Characterisation: 25 g/L beta-cyfluthrin
 cyano-(4-fluoro-3-phenoxyphenyl)-methyl-3-(2,2-dichloroethenyl)-2,2
 dimethyl-cyclopropane carboxylate

Chemical Group: synthetic pyrethroid

Physical Description/Properties

Form: liquid
 Colour: clear yellow
 Odour: aromatic
 Solubility in Water: emulsifiable
 pH Value (10% in water): 5.5-6.5
 Flash Point: >65 degrees celsius
 Density: Approx. 0.89 grams per cubic metre at 20 degrees celsius.

Ingredients

Chemical	CAS No.	Proportion
Beta-cyfluthrin	68359-37-5	25 g/L
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	V High
Surfactants	9016-45-9	Low
Emulsifiers		Low

Proportion (% weight/weight): V High = 60%; High = 30-60%,
 Medium = 10 -< 30%, Low = 1-9%

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Health Hazards

Health Effects

No adverse health effects are expected if this product is used in accordance with the label. The concentrate is dangerous. No specific symptoms of poisoning are to be expected.

Chronic: No evidence of carcinogenic, teratogenic, mutagenic or neurotoxic effects.

Swallowed

Harmful if swallowed.

Skin

Contact with the skin may produce symptoms such as itching, skin reddening or rash or paresthesia (a tingling or burning sensation on the surface of the skin). Paresthesia normally subsides within 24 hours. Persons with a history of asthma, emphysema or hyperactive airway disease may be more susceptible to overexposure.

Eye

Will irritate the eyes.

Inhaled

May be harmful if vapour or spray is inhaled.

First Aid

If poisoning occurs contact a doctor or Poisons Information Centre. Remove from contaminated area. Apply artificial respiration if not breathing.

Swallowed

If swallowed and if more than 15 minutes from a hospital induce vomiting, preferably using Ipecac Syrup APF.

Skin

Wash skin immediately with soap and water.

Eye

If in eyes, rinse eyes thoroughly with water and see a doctor.

Inhaled

Remove patient to fresh air. Keep rested and warm.

Advice to Doctor

If clinical symptoms of poisoning are present, apply basic aid and decontamination procedures and treat symptomatically.

Antidote: none known.

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Precautions for Use

Exposure Standards

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

Engineering Controls

Not applicable.

Personal Protection

Personal Protective Measures:

Avoid contact with eyes, skin and clothing. Do not inhale product vapours or spray mist. Product and spray are poisonous if absorbed by skin contact, inhaled or swallowed. Ensure adequate ventilation.

Personal Protective Equipment:

When opening container and preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist, and washable hat and elbow-length PVC gloves and face shield.

Industrial Hygiene:

If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product or spray on skin, immediately wash the area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use wash contaminated clothing, gloves etc. with detergent and water.

Flammability

Protection Against Fire:

Bulldock Duo is a combustible liquid Cl.

Safe Handling Information

Storage

Keep out of reach of children. Store in the tightly closed original container in a dry, well ventilated area, as cool as possible. Do not store for prolonged periods in direct sunlight. Do not store near any material intended for use or consumption by humans or animals.

Transport

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

Shipping name: None

Packing group: None

DG Class: None

UN No: None allocated

Sub Risk: None

Hazchem: None

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Safe Handling Information

(Continued)

Spills

Alert and evacuate all personnel from the immediate area. Prevent spill from spreading or entering waterways or underground drains. Take up with absorbent material such as sawdust, peat or binding agent for chemicals. Fill material along with any contaminated soil etc. into sealable containers. Clean affected area with an aqueous detergent and a small amount of water. On completion of clean-up remove and wash all protective clothing and equipment with detergent and water. Any heavily contaminated clothing should be placed in a plastic garbage bag and placed in sealable drum. Do not smoke, eat or drink during clean-up operation.

Disposal

1) After intended use:

Triple or (preferably) pressure rinse container before disposal. Add rinsings to the spray tank. Do not dispose of undiluted chemicals on site. Break, puncture, crush and bury rinsed container in a local authority landfill (check local statutory requirements). If not available, bury the container below 500 mm in a marked disposal pit specifically set up for this purpose, clear of waterways, vegetation and roots. Empty container and product should not be burnt.

2) After spill or accident:

Dispose of sealed containers at an approved local waste disposal site.

Fire/Explosion Hazard

Dangerous Decomposition or Combustion Products:

Thermal Decomposition:

Hazardous polymerisation will not occur.

Hazardous Decomposition Products:

If involved in a fire; hydrogen chloride gas, hydrogen fluoride, oxides of nitrogen, carbon monoxide must be anticipated. Do not breathe the vapour.

Extinguishing Media: water fog (if unavailable fine water spray may be used).

Further Information:

Special firefighting procedures: Wear full protective clothing and self-contained breathing apparatus.

Other Information

Information on Toxicity

LD50 oral (ingestion) - rat: 700 mg/kg (Bayer) i.e. harmful

LD50 dermal (skin contact) - rat: >5000 mg/kg (Bayer) i.e. practically non-toxic

Irritation of the eyes - non-irritant to the eyes

Irritation of the skin - rabbit: non-irritant

Irritation of the mucous membranes - rabbit: non-irritant.

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Other Information

(Continued)

Information on Ecological Effects

Dangerous to fish. Do NOT contaminate ponds, waterways or drains with the chemical or used containers. Dangerous to bees and other beneficial insects. Do NOT spray on any plants in flower while bees are foraging.

Fish toxicity:

Betacyfluthrin:

LC50 : 330.9 ng/L (96 h); Golden orfe (*Leuciscus idus*) (Bayer)

LC50 : 620.5 ng/L (24 h); Golden orfe (*Leuciscus idus*) (Bayer)

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.

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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.