

MATERIAL SAFETY DATA SHEET

Cislin® Ultra Fast-Shot Crack and Crevice Aerosol

Date of Issue: August 21st, 2008

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product name: **Cislin® Ultra Fast-Shot Crack and Crevice Aerosol**
Other names: None
SAP product code: Not available
Chemical group: Pyrethroid
Recommended use: Surface spray aerosol
Formulation: Aerosol (surface spray)
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.bayeres.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

Hazard designation: Not classified as hazardous according to criteria of Worksafe Australia
Risk phrases: Not applicable
Safety phrases: Not applicable
ADG classification: Dangerous Goods for Transport by Road and Rail according to the Australian Code for the Transport of Dangerous Goods. AEROSOLS, Class 2, UN1950
SUSDP
classification: Schedule 5

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (g/kg):
Deltamethrin	[52918-63-5]	0.2
s-bioallethrin	28434-00-6	1.5
Other ingredients (non-hazardous)	-	998.3

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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:** Remove person to fresh air. Keep at rest. Seek medical advice if exposure has been more than trivial. Administer artificial respiration if breathing has stopped.
- Skin contact:** Wash affected areas. Apply vitamin E cream, toilet milks or local anaesthetic creams to reduce irritation if it occurs. Seek medical advice if at all worried.
- Eye contact:** Rinse immediately with plenty of water for at least 15 minutes, holding eye open. Seek advice from an ophthalmologist.
- Ingestion:** Wash out mouth with water. Do not induce vomiting. Keep patient at rest and seek medical advice.
- First Aid Facilities:** Ensure washing facilities are available.
- Symptoms:** Local: skin and eye paraesthesia. The product causes irritation of eyes, skin and mucous membranes. Inhalation may provoke the following symptoms: irritation, cough.
Systemic: excitement, gastrointestinal discomfort, tremors, dizziness, headache, apathy, nausea, vomiting, abdominal pain, muscular fasciculation.
- Medical attention:** Treatment
Basic aid, decontamination and symptomatic treatment.
Note for physicians
Skin contacted by deltamethrin must be carefully cleaned with cleansing milk. Symptoms can be partially alleviated by the application of a moisturising cream or anaesthetic ointment. For eyes, instil local anaesthetic drops e.g. 1% amethocaine hydrochloride eye drops. This product contains a small amount of hydrocarbon solvent. Small amounts aspirated into the lungs during ingestion or vomiting may cause pulmonary injury. As the propellant is an asphyxiant administration of oxygen may be necessary if the product is inhaled.
DO NOT confuse with anticholinesterase compounds.

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5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray, carbon dioxide, foam, dry chemical. Do not use a water jet from a fire hose.

Hazards from combustion products: In the event of fire oxides of nitrogen and carbon and other irritant or toxic fumes may be produced.

Precautions for fire fighters: Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1716), as toxic and irritating decomposition products may be produced in a fire. If it can be done safely, remove intact containers from the fire. Otherwise, use water spray to cool them. Bund area to prevent contamination of water sources. Dispose of fire control extinguishing agent and spillage later in a safe manner. Do not release contaminated water into the environment.

6. ACCIDENTAL RELEASE MEASURES

Dealing with spills and disposals may result in the potential for increased personal exposure. Protective clothing and equipment as described in the PERSONAL PROTECTION section should be worn. Avoid contact with spilled material or contaminated surfaces. Keep people and animals away. Prevent spill from entering drains, sewers or any body of water. Sweep up into sealable containers for disposal in accordance with applicable local, state and federal regulations.

7. HANDLING AND STORAGE

Handling: Keep out of reach of children. Avoid contact with eyes and skin. Avoid inhalation of dust.

Storage: Store product in the closed, original container in a cool, well-ventilated area away from direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure standards: No exposure standard has been assigned by the National Occupational Health and Safety Commission (Worksafe Australia). Bayer recommends an Occupational Exposure Standard for deltamethrin of 0.28 mg/m³.

Engineering controls: Control process conditions to avoid contact. Use local exhaust ventilation.

Personal Protective Equipment:

Eyes:	Avoid contact with the eyes.
Clothing:	No special clothing is required. Avoid contact with skin.
Gloves:	Avoid contact with skin. Gloves are not normally necessary.
Respiratory:	Do not inhale spray. Wear an approved respirator to prevent inhalation, if other control measures are inadequate.
Other:	Wash thoroughly after handling. Do not eat, drink or smoke until after washing.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Aerosol can
Odour:	Weak characteristic
Vapour pressure:	Not available
Vapour density:	Not available
Boiling point:	Not available
Solubility:	Not available
Density:	Not available
pH:	Not applicable
Flash Point:	Not available
Flammability (explosive) limits:	Non-flammable
Auto-ignition temperature:	Not applicable
Octanol/water partition coefficient:	Not available
Formulation:	Surface spray aerosol

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use. Avoid conditions of extreme temperature and direct sunlight.
Hazardous polymerisation:	Not available.
Incompatible materials:	Avoid strong acids.
Hazardous decomposition products:	In the event of fire, hydrogen cyanide, hydrogen bromide, and oxides of nitrogen and carbon may be produced.

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11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

Inhalation: Inhalation of spray may produce respiratory irritation.
Skin contact: May irritate the skin.
Eye contact: Mildly irritating.
Ingestion: The product is of low oral toxicity.
Other: None

ANIMAL TOXICITY DATA – PRODUCT

Acute:

Oral toxicity: LD₅₀ rat: > 5000 mg/kg (formulation containing 0.5 g/kg deltamethrin)
Dermal toxicity: LD₅₀ rat: > 5000 mg/kg (formulation containing 0.5 g/kg deltamethrin)
Inhalation toxicity: LC₅₀ (4 h) rat: > 26.1 mg/L (formulation containing 0.5 g/kg deltamethrin)
Skin irritation: Slightly irritating to the skin
Eye irritation: Irritating to the eyes
Sensitisation: Not sensitising

Chronic:

Deltamethrin is not mutagenic, carcinogenic or teratogenic.

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12. ECOLOGICAL INFORMATION

Deltamethrin is highly toxic to fish, aquatic organisms and bees in laboratory studies, but considered less toxic under natural conditions.

Fish toxicity: Deltamethrin: LC₅₀: 0.001 – 0.01 mg/L (96 h) fish.

Daphnia toxicity: Deltamethrin: LC₅₀ (48h): 3.5 µg/L

Toxicity to algae: Deltamethrin: EC₅₀ (96h): >9.1mg/L

Bird toxicity: Deltamethrin: LD₅₀: > 5,000 mg/kg duck
Deltamethrin: LD₅₀: > 10,000 mg/kg quail

Bee toxicity: Deltamethrin found to be highly toxic in lab studies but considered less toxic under natural conditions.

Other: None

Environmental fate, persistence and degradation: Deltamethrin is not persistent in the environment. It is destroyed by soil micro-organisms and does not leave residues in the environment or build up in the food chain.
Do not contaminate streams, rivers or waterways with the product or used containers.

13. DISPOSAL CONSIDERATIONS

Triple or preferably pressure rinse container before disposal. Dispose of rinsings in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

UN number: UN1950
Proper shipping name: AEROSOLS
Class and Subsidiary Risk: Class 2
Packing Group: Not applicable
Hazchem code: Not applicable
Marine Pollutant: No

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15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Act 1988

Australian Pesticides and Veterinary Medicines Authority Approval Number: 62276

16. OTHER INFORMATION

Trademark information: Cislin® is a Registered Trademark of Bayer.
Preparation information: First edition
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