## Cislin® 25 Professional Insecticide

Date of Issue: January 8th, 2009

# 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product name: Cislin® 25 Professional Insecticide

Other names: None
SAP product code: Not available
Chemical group: Pyrethroid

Recommended use: For control of a range of insect pests in various situations.

Formulation: Suspension Concentrate (SC)

Supplier: Bayer Environmental Science – A Business Group of Bayer CropScience Pty Ltd

ABN 87 000 226 022

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**Emergency** 

Telephone Number: 1800 033 111 – Orica SH&E Shared Services

#### 2. HAZARDS IDENTIFICATION

### HAZARDOUS SUBSTANCE - NON-DANGEROUS GOOD

May cause sensitisation by skin contact.

Hazard designation: Hazardous (National Occupational Health and Safety Commission - NOHSC)

Risk phrases: R43 – May cause sensitisation by skin contact.

Safety phrases: See Sections 4, 5, 6, 7, 8, 9, 13

ADG classification: Not a "Dangerous good" for transport by road or rail according to the Australian Code for

the Transport of Dangerous Goods by Road and Rail. For transport by sea, Cislin 25 is a

MARINE POLLUTANT. See Section 14.

**SUSDP** 

classification: Schedule 5 (Standard for the Uniform Scheduling of Drugs and Poisons)

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (g/L):
Deltamethrin	[52918-63-5]	25
1,2-propanediol	[57-55-6]	63.5
Kathon ICP – 1.5% Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	[55965-84-9]	~2.5
Other ingredients	(non hazardous)	~925

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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: If inhaled, remove to fresh air and keep at rest. Loosen clothes. Obtain medical advice if at

all worried. Restore and/or support breathing as required. In extreme cases of exposure; if

breathing stops or shows signs of failing, start artificial respiration.

Skin contact: Carefully remove contaminated clothing and footwear. Wash affected areas with soap and

water. Apply vitamin E cream, toilet milks or local anaesthetic creams to reduce irritation if it occurs. Seek medical advice if at all worried. Launder contaminated clothing before re-

use.

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 as above. Do not apply mouth to mouth resuscitation if the material has been

ingested.

First Aid Facilities: Ensure eye wash and safety shower are available when handling this product.

Symptoms: Burning sensations on the skin, irritation of the mucous membranes, coughing and

sneezing may be experienced. Following severe intoxication, respiratory effects can include chest tightness, airway hyper-reaction, and pulmonary oedema. Possible circulatory effects include tachycardia, hypotension, and palpitations. Gastrointestinal symptoms may include nausea, vomiting, diarrhoea, abdominal pain, and salivation. Potential Central Nervous System effects are dizziness, blurred vision, headache, listlessness, anorexia, somnolence/coma, seizures/convulsions, tremor, ataxia, and

muscle fasciculations.

Medical attention: <u>Treatment</u>

Basic aid, decontamination, symptomatic treatment and if necessary administration of

antidote.

Note for physicians

Treat large intakes with gastric lavage, and charcoal administration. Use endotracheal intubation, and artificial respiration (if necessary). Monitor respiratory and cardiac functions. Observe electrocardiograph, and check for pulmonary oedema in event of inhalation. Anticonvulsant therapy with diazepam i.v. No antidote known. Treat symptoms.

Recovery should be spontaneous. Elimination by: dialysis, haemo-perfusion. Contraindication – adrenergic compounds, atropine. DO NOT confuse with

anticholinesterase compounds. Due to risk of paraesthesia, skin contacted by deltamethrin must be carefully cleaned with cleansing milk. Symptoms can be partially alleviated by the application of a vitamin E or moisturising cream or anaesthetic ointment. For eyes, instil local anaesthetic drops e.g. 1% amethocaine hydrochloride eye drops. Give analgesics as

necessary.

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### 5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray, carbon dioxide, foam, dry chemical.

Hazards from combustion products:

In the event of fire, hydrogen cyanide, hydrogen bromide, and oxides of nitrogen and

carbon may be produced.

Precautions for fire

fighters:

(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

Fire fighters should wear full protective gear, including self-contained breathing apparatus

water into the environment.

#### 6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled material or contaminated surfaces. When dealing with the spillage do not eat, drink or smoke and wear personal protective clothing and equipment as detailed in 'Personal Protection' section. Keep people and animals away. Prevent spillage from entering drains, sewers or watercourses. Contain/absorb spillage in sand/earth or other suitable inert material. Transfer collected material to sealable containers. Seal and label containers ready for disposal. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

#### 7. HANDLING AND STORAGE

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

Storage: Store in original container in a cool, dry, well-ventilated area. Keep away from food, drink

and animal feeds. Keep out of direct sunlight and avoid frosts.

### 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. The manufacturer of propylene glycol recommends a TWA exposure limit of 10 mg/m³ mist (400 ppm vapour).

Engineering controls: No special ventilation is required, as this product is not volatile. Control process conditions

to avoid contact. Use local exhaust ventilation while spraying, if possible.

Personal Protective

Eyes: Wear face shield.

Equipment: Clothing: When preparing spray and using the prepared spray wear cotton overalls

buttoned to the neck and wrist and a washable hat.

Gloves: Elbow-length PVC gloves.

Respiratory: Respiratory protection is generally not required when using this product.

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Opaque white liquid

Odour: Negligible
Vapour pressure: As water
Vapour density: Not available
Boiling point: 100°C

Solubility: Forms a suspension
Density: 1.016 at 20°C
pH: 3.0 – 5.0
Flash Point: Not applicable

Flammability

(explosive) limits: Not applicable

**Auto-ignition** 

temperature: Not applicable

Octanol/water

partition coefficient: LogP<sub>ow</sub> = 4.6 (25 °C) – deltamethrin Formulation: Suspension concentrate (SC)

### 10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions of use.

Hazardous

polymerisation: Not available

Incompatible

materials: Avoid oxidising agents, strong acids and alkalis.

Hazardous

decomposition In the event of fire, hydrogen cyanide, hydrogen bromide, and oxides of nitrogen and

products: carbon may be produced.

### 11. TOXICOLOGICAL INFORMATION

#### POTENTIAL HEALTH EFFECTS

Inhalation: Inhalation of the product is unlikely to occur because of its low volatility. However,

inhalation of spray may cause transient irritation of mucous membranes (nose, throat and

respiratory tract) for up to 24 hours.

Skin contact: Irritating. Contact with the skin, especially the face, may result in initial stinging or burning

sensations followed by numbing which may persist for a few hours. (Although skin

irritation tests in animals show deltamethrin to be non-irritating, experience has shown it to

cause these symptoms on human skin). May cause sensitisation by skin contact.

Eye contact: May cause irritation to the eyes.

Ingestion: Product is harmful if swallowed.

Other: None

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#### ANIMAL TOXICITY DATA - PRODUCT:

Acute:

Oral toxicity:  $LD_{50}$  rat: > 15,000 mg/kg

Dermal toxicity:  $LD_{50}$  rat: > 10,000 mg/kg

Inhalation toxicity:  $LC_{50}$  (4 h) rat: > 2.3 mg/L

Skin irritation: Non-irritating – rabbit

Eye irritation: Non-irritating – rabbit

Sensitisation: May cause skin sensitisation - Guinea pig

Chronic:

Deltamethrin is not mutagenic, carcinogenic or teratogenic.

### 12. ECOLOGICAL INFORMATION

Deltamethrin is highly toxic to fish and aquatic organisms.

Fish toxicity: Deltamethrin:  $LC_{50}$ : 0.001 – 0.01 mg/L (96 h) fish.

Daphnia toxicity: Deltamethrin: LC<sub>50</sub> (48h): 3.5 μg/L

Toxicity to algae: Deltamethrin: EC<sub>50</sub> (96h): >9.1mg/L

Bird toxicity: Deltamethrin:  $LD_{50}$ : > 5,000 mg/kg duck

Deltamethrin: LD<sub>50</sub>: > 10,000 mg/kg quail

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

conditions of use.

Other: None

Environmental fate, persistence and degradation:

Deltamethrin is not considered persistent in the environment. It is destroyed by soil microorganisms 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.

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#### 13. DISPOSAL CONSIDERATIONS

Triple or preferably pressure rinse containers before disposal. Add rinsings to treatment mixture. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, 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: Not applicable (road/rail)
Proper shipping Not applicable (road/rail)

name:

Class and Not applicable (road/rail)

**Subsidiary Risk:** 

Packing Group: Not applicable (road/rail)
EPG: Not applicable (road/rail)
Hazchem code: Not applicable (road/rail)

Marine Pollutant: Yes – If this product is shipped by sea it is a Class 9 ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, LIQUID, N.O.S (contains deltamethrin), UN 3082, Packing Group III.

#### 15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Act 1988

Australian Pesticides and Veterinary Medicines Authority Approval Number: 62147

#### 16. OTHER INFORMATION

Trademark Cislin® is a Registered Trademark of Bayer.

information:

Preparation First edition

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**