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#### STATEMENT OF HAZARDOUS NATURE

Not classified as hazardous according to criteria of Worksafe Australia.

**COMPANY DETAILS:** 

Company: Aventis CropScience Pty Ltd A.B.N. 87 000 226 022 Address: 391 – 393 Tooronga Road, East Hawthorn, Victoria 3123

Telephone / Facsimile: (03) 9248 6888 / (03) 9248 6800

Website Address: www.aventis.com.au

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

### **IDENTIFICATION**

Product Name: Cislin® Residual Insecticide

Other Names: Kordon Manufacturing Concentrate, K-Obiol®, K-Otek®

Manufacturer's Product Code: AE F032640 00 SC01 B1

SAP Product Code: 131512 (2.5 L), 195499 (5 L), 998429 (10 L)

UN Number: Not applicable

Dangerous Goods Class and Not classified as a Dangerous Good for road and rail

Subsidiary Risk: transport
Hazchem Code: Not applicable
Proper Shipping Name: Not applicable
Packaging Group: Not applicable
EPG: Not applicable
Chemical Family: Pyrethroid

Poisons Schedule Number: 5
AQIS Approval No: 5941

Use: A liquid insecticide concentrate for spray application

**Physical Description/Properties** 

Appearance: White liquid with practically no odour

Boiling Point: 100°C
Vapour Pressure: As water
Specific Gravity: 1.01 at 20°C
Flashpoint: Not applicable
Flammability Limits: Not applicable
Solubility in Water: Forms a suspension

Other Properties:

Autoignition temperature: Not applicable Percent volatiles: Negligible

**Ingredients:** 

Chemical Name: CAS Number: Proportion (g/L):

Deltamethrin [52918-63-5] 10 Propylene glycol [57-55-6] 60 Other ingredients (not hazardous) 940

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### **HEALTH HAZARD INFORMATION**

**Health Effects:** 

Acute:

Swallowed: Product is harmful if swallowed. Symptoms include burning sensations

in the mouth, headache, dizziness, drowsiness, diarrhoea, nausea, vomiting, listlessness, stomach pain, muscular twitching or arms or legs, unconsciousness, convulsions and coma (very high doses).

Eye: Irritant.

Skin: 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.)

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.

*Chronic:* Deltamethrin is not mutagenic, carcinogenic or teratogenic.

First Aid 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.

Swallowed: 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.

Eye: Rinse immediately with plenty of water for at least 15 minutes, holding

eye open. Seek advice from an ophthalmologist.

Skin: 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 pain. Seek medical advice if at all

worried. Launder contaminated clothing before re-use.

Inhaled: 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. If breathing stops or shows signs of failing, start artificial

respiration.

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

product.

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Advice to Doctor: 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.

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.

### PRECAUTIONS FOR USE

Exposure Standards: No exposure standard has been assigned by the National Occupational

Health and Safety Commission (Worksafe Australia). Aventis

recommends an Occupational Exposure Standard for deltamethrin of 0.28 mg/m<sup>3</sup>. 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 Protection: Eyes: Wear face shield.

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: Wear a suitable respiratory mask (eg. with Class P1

particulate filter) while spraying.

Other: Do not eat, drink or smoke until after washing. Wash

thoroughly after handling. After each day's use wash

gloves, face shield and contaminated clothing.

Flammability: Not flammable.

### SAFE HANDLING INFORMATION

Storage and Transport:

Corrosivity Hazards: Avoid iron and alloys.

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Handling & Storage

Precautions:

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

Transport: This product is not classified as a Dangerous Good under the Australian

Code for the Transport of Dangerous Goods by Road and Rail.

Spills and Disposal:

Spillage or Leak Procedures:

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.

# SAFE HANDLING INFORMATION (Contd.)

Waste Disposal Methods:

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. 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 the purpose, clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. Dispose of waste product safely.

Fire/Explosion Hazard:

Extinguishing Media: Water spray, carbon dioxide, foam, dry chemical. Do not use a water

jet from a fire hose.

Special Fire Fighting

Procedures:

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.

Reactivity Hazards:

Stable under normal conditions. Not known to produce hazardous

reactions. Avoid oxidising agents, strong acids and alkalis.

OTHER INFORMATION:

Toxicology Oral LD<sub>50</sub> (mg/kg) > 10,000 Species: Rat

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(product) Dermal LD<sub>50</sub> (mg/kg) > 10,000 Species: Rat

Species: Rat Toxicology Oral LD<sub>50</sub> (mg/kg) 130 (deltamethrin) Dermal LD<sub>50</sub> (mg/kg) > 2.000 Species: Rabbit Species: Inhalation LC<sub>50</sub> (mg/L) 2.2 (4-hour) Rat Eye irritation Slight irritant Species: Rabbit Skin irritation Non-irritating Species: Rabbit

Skin irritation Non-irritating Species: Rabbit Sensitisation Not a sensitiser Species: Guinea pig

Environmental/ Ecological Effects (deltamethrin): Deltamethrin is highly toxic to fish, aquatic organisms and bees in laboratory studies, but considered less toxic under natural conditions.

 $LC_{50}$  (96-h) fish: 0.001 – 0.01 mg/L  $LD_{50}$  (duck): > 5,000 mg/kg  $LD_{50}$  (quail): > 10,000 mg/kg

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.

Special Precautions/

Comments:

Avoid contact with skin and eyes. Do not spray facing the wind.

Data Sources/ References: Aventis CropScience Pty. Ltd. Product Safety Data and published data

#### **CONTACT POINT:**

Emergency Contact Number: 1800 033 111 (Orica SH&E Shared Services)

Development Manager (Environmental Science): (03) 9248 6888

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.

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