



SUPERWAY GARDEN AG & PEST PRODUCTS PTY

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MATERIAL SAFETY DATA SHEET

Date

13/6/2011

1 IDENTIFICATION

Product Name	Superway Delta-M Residual Insecticide
Chemical Name	Deltamethrin
Chemical Class	Pyrethroid
Hazchem Code	not applicable
UN No	not applicable
Dangerous Goods Code	Not classified as dangerous goods for road and rail transport
Sub.Risk Class	
Packaging Group	not applicable
EPG	
Poison Schedule	S5
Use	A liquid insecticide concentrate for spray application.

Physical Appearance and Properties.

Appearance and Odour	White appearance with no apparent odour
Boiling Point	100°C
Vapour Pressure	As Water
Volatile Component	Negligible
Flash point	not applicable
Specific Gravity	1.01 at 20°C

Ingredients	CAS No.	g/l
Deltamethrin	52918-63-5	10g/l
Propylene glycol	57-55-6	60 g/l
Other inert ingredients	not hazardous	930g/l

11 HEALTH HAZARD DATA

Health effects.

Acute:

Swallowed: Product is harmful if swallowed. Symptoms include headache, dizziness, drowsiness, nausea and vomiting.

Eye Can be irritating to eyes.

Skin Product is irritating to skin. Contact with skin, especially the face, may result in initial stinging or burning sensations followed by numbness which may persist for several hours.

Inhalation Avoid breathing spray. 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 or teratogenic.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre (Telephone 131126) and follow the advice given. Provide a copy of this Safety Data sheet to Doctor if possible.

SWALLOWED

Wash out mouth with water and seek medical advice. If swallowed and more than 15 minutes from Hospital, induce vomiting, preferable using Ipecac Syrup APF.

EYE

Immediately irrigate with plenty of water for at least 15 minutes. Seek medical assistance.

SKIN

Remove contaminated clothing and shoes. Wash affected areas of skin with plenty of soap and water. Seek medical assistance if irritation persists. Launder contaminated clothing before re-using.

INHALATION

Remove patient to fresh air and allow them to rest and keep warm. Loosen clothing.

ADVISE TO DOCTOR

Treat symptoms. Skin contact by deltamethrin must be carefully cleaned with cleansing milk. Symptoms can be alleviated in part by the application of a moisturising cream or anaesthetic ointment.

TOXICITY DATA:

Animal toxicity (product)	Oral LD ₅₀ (mg/kg)	>10,000	Species: Rat
	Dermal LD ₅₀ (mg/kg)	>10,000	Species: Rat
(deltamethrin)	Oral LD ₅₀ (mg/kg)	130	Species: Rat
	Dermal LD ₅₀ (mg/kg)	>2,000	Species: Rabbit
	Inhalation LC ₅₀ (mg/L)	2.2 (4 hour)	Species: Rat
	Eye irritation	Slight irritant	Species: Rabbit
	Skin irritation	Non irritating	Species: Rabbit
	Sensitisation	Not a sensitiser	Species: Guinea Pig
Environmental/ Ecological	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 highly toxic to fish and aquatic organisms.
Deltamethrin is persistent in the environment. It is destroyed by soil microorganism and does not leave residues in the environment or build up in the food chain.

111 PRECAUTIONS FOR USE

Exposure standards

No exposure standard has been assigned by the National Occupational Health and Safety Commission (Worksafe Australia). A general recommendation for occupational exposure to deltamethrin is 0.28mg/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 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 while spraying.
General	Do not eat drink or smoke until after washing. Wash thoroughly after handling. Launder all contaminated clothing including gloves and face shield.

IV SAFE HANDLING INFORMATION

Storage and transport.

Keep Out of reach of children.

Avoid Iron and alloys.

Store in closed original, container in a dry, well ventilated area, as cool as possible, out of direct sunlight. Store in locked room or place away from children, animal's food foodstuffs, seed and fertilisers. Protect from frost.

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 DISPOSALS

Dealing with spills and disposals may result in the potential for increased personal exposure. During such operations it is recommended that the following protective clothing be worn.

Cotton overalls buttoned to the neck and wrist.

Elbow length PVC gloves.

Face shield and goggles.

Prevent spills from entering drains, sewers and any body of water. Contain and absorb with sand, earth or inert absorbent. Scoop or shovel into sealable containers for disposal.

WASTE DISPOSAL METHODS

Triple pressure rinse containers before disposal. Add rinsing to spray tank. Do not dispose of undiluted chemicals on site. Break, crush or puncture and bury the empty containers in the local authority landfill. If not available, bury the containers under 500mm in a disposal pit specifically set up for this purpose clear of waterways, vegetation and roots.

Fire/Explosion Hazard.

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

Heating/combustion will generate oxides of carbon and nitrogen, and other irritant and toxic fumes. Firefighters should wear full protective clothing and self-contained breathing apparatus. Do not release contaminated water into the environment. Keep intact containers cool by spraying with water.

Stable under normal conditions. Not known to produce hazardous reactions.

Avoid oxidising agents, strong acids and alkalis.

V OTHER INFORMATION

CONTACT POINTS:

Poisons information centre	Telephone	131126
Superway Garden Products	Telephone	07 54 390355
Pty Ltd Head Office	Telephone	07 54 390366
Fax	Email	msd@superway.com.au

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