

MATERIAL SAFETY DATA SHEET – SCARID10

Date of Issue: March 1, 2006

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product name: **SCARID10**

Other names: Deltamethrin 10 %[®]

Product code: 166

Recommended use: A liquid insecticide concentrate for use as a general purpose pest control spray

Supplier: Nulife Technologies – A Business Group of Sevroc Pty Ltd ABN 57093984705

Address: 51 Burlington Street Naval Base 6165

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Contact: Technical Manager Franco Corona

Emergency Telephone Number: 0403017534
Corona Industries

2. HAZARDS IDENTIFICATION

NON-HAZARDOUS SUBSTANCE - NON-DANGEROUS GOOD

Will irritate eyes and skin. Not flammable.

Hazard designation: Not classified as hazardous according to criteria of Worksafe Australia.

Risk phrases: Not applicable

Safety phrases: Not applicable

ADG classification: Not “dangerous goods” for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

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]	10
Propylene glycol	[57-55-6]	60
Other ingredients (non hazardous)		940

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: 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).

Medical attention: 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.

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:	Not known to produce hazardous reactions.
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

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/m ³ . The manufacturer of propylene glycol recommends a TWA exposure limit of 10 mg/m ³ 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 Equipment: 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White liquid.
Odour: Practically no odour
Vapour pressure: As water

Vapour density: Not available
Boiling point: 100 °C
Solubility: Forms a suspension

Density: 1.01 at 20 °C
pH: Not available
Flash Point: Not applicable
Flammability (explosive) limits: Not applicable

Auto-ignition temperature: Not applicable

Octanol/water partition coefficient: Not available

Formulation: Liquid concentrate insecticide

10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions of use.

Hazardous polymerisation: Not available

Conditions to avoid: Not available

Incompatible materials: Avoid oxidising agents, strong acids and alkalis.

Hazardous decomposition products: Not Available

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.)
Eye contact:	Irritant.
Ingestion:	Product is harmful if swallowed.
Other:	None

ANIMAL TOXICITY DATA – PRODUCT AND ACTIVE INGREDIENT:

Acute:

Oral toxicity:	LD ₅₀ rat: > 10,000 mg/kg (product) LD ₅₀ rat: 130 (deltamethrin)
Dermal toxicity:	LD ₅₀ rat: > 10,000 mg/kg (product) LD ₅₀ rabbit: > 2,000 mg/kg (deltamethrin)
Inhalation toxicity:	LC ₅₀ (4 h) rat: 2.2 mg/L (deltamethrin)
Skin irritation:	Non-irritating – rabbit (deltamethrin)
Eye irritation:	Slight irritant – rabbit (deltamethrin)
Sensitisation:	Not sensitising - guinea pig (deltamethrin)

Chronic:

Deltamethrin is not mutagenic, carcinogenic or teratogenic.

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: LC ₅₀ : 0.001 – 0.01 mg/L (96 h) fish.
Daphnia toxicity:	Not available
Toxicity to algae:	Not available
Bird toxicity:	Deltamethrin: LD ₅₀ : > 5,000 mg/kg duck Deltamethrin: LD ₅₀ : > 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 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. Dispose of waste product through a reputable waste contractor. If disposal of unwanted treated seed is necessary, bury seed below 500 mm in a disposal pit, specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.

14. TRANSPORT INFORMATION

UN number:	Not applicable
Proper shipping name:	Not applicable
Class and Subsidiary Risk:	Not "dangerous goods" for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
Packing Group:	Not applicable
EPG:	Not applicable
Hazchem code:	Not applicable

15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Act 1988
National Registration Authority approval number: 32223

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16. OTHER INFORMATION

Trademark information: N/Applicable.

Preparation information: March 1, 2006

Data sources:

Nulife Technologies 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