



Material Safety Data Sheet

Revision date: June 2012

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Name	Crown 225SL Systemic Insecticide
Product Code	9075, 9071
Recommended use:	Insecticide for ornamental horticulture
Proper shipping name:	Not applicable
Supplier:	Everris Australia Pty Ltd, 211/33 Lexington Drive, Bella Vista, NSW 2153, Australia. Tel: +61(2) 8801 3300 Everris Australia Pty Ltd, PO Box 125, Whitford, Auckland 2149 L4, Grant Thornton House, 152 Fanshawe Street, Auckland, New Zealand Tel: +64 (0)274908438
Australian Business Number:	31 003 123 162
Emergency telephone number:	Australia: (02) 801 44558 New Zealand: (09) 992 1483

2. HAZARDS IDENTIFICATION

Classified as hazardous according to NOHSC. Not classified as dangerous goods according to the ADG Code.

Risk phrases:	R22 Harmful if swallowed
	R36 Irritating to eyes
	R52 Harmful to aquatic organisms
Safety Phrases:	S2 Keep out of the reach of children
	S23 Do not breathe vapour or spray
	S36/37/39 Wear suitable protective clothing, gloves and eye/ face protection.
	S46 If swallowed, seek medical advice immediately and show this container or label.
	S61 Avoid release to the environment. Refer to special instructions/ safety data sheets.

Poisons schedule No. (Aust)/Toxic Substance (NZ): Schedule 6.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion Ingredients
	Acetamiprid	135410-20-7	≥ 20 %
	Dimethyl sulfoxide	67-68-5	≤ 47 %
	N-methyl-2-pyrrolidone	872-50-4	30 %
	Other ingredients determined not to be hazardous	-	3 %

4. FIRST AID MEASURES

Inhalation	If inhaled, remove to fresh air and keep at rest. Obtain medical advice if at all worried. If not breathing give artificial respiration. If breathing is difficult administer oxygen.
Ingestion	If poisoning occurs, contact a doctor or Poisons Information Centre (phone 131126). Wash out mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Keep patient at rest and seek medical advice.
Skin	Carefully remove contaminated clothing. Wash affected areas thoroughly with soap and water. Seek medical aid if at all worried.
Eye	Rinse eyes immediately with clean water, holding eyes open, for at least 15 minutes and see a doctor.
Advice to doctor	No specific antidote. Treat according to symptoms. Symptoms from overexposure to the product include irritation, nausea, vomiting, headache, confusion, liver effects, lethargy, muscle tremors and convulsions.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Foam, dry chemical, carbon dioxide, water spray. Contain all runoff.
Hazards from Combustion Products	This product may evolve harmful and irritant gas and fumes such as CO, NOx, Sox, HCl or organic compounds by being heated or on combustion. The containers may explode on being heated.
Special Protective Equipment for fire fighters	Isolate fire area. Evacuate downwind residents. Fire fighters should wear full protective gear including self-contained breathing apparatus (AS/NZS 1715-1716). If possible and without risk, remove intact containers from exposure to fire. Otherwise, spray un-opened containers with water to keep cool. Contain fire-fighting water by bounding area with sand or earth to prevent it entering any bodies of water. Dispose of fire control water or other extinguishing agent and spillage safely later.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Protective Equipment: Wear personal protective equipment. Refer to Section 8 for personal protective equipment.

Personal Precaution: Avoid contact with skin, eyes and clothing. Avoid breathing vapor or mist.

Environmental Precautions: Prevent from releasing it to the environment as this product may be harmful to aquatic organisms.

Methods for cleaning up:

Keep away from all ignition sources. Ventilate area. Bank up soil or sand around spill site to prevent it from flowing out to the environment. Scoop spill with tools such as a shovel, absorb spill with inert material (e.g. dry sand or vermiculite), and place them in air-tight containers. Wash spill site with soap and water after material clean up is complete. Obey all Federal, State and local regulations for health & safety and environmental protection in treating the spill.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Wear appropriate personal protective equipment as set out in section 8 of this MSDS.

Keep away from all ignition sources.

Avoid contact with skin, eyes and clothing.

Avoid breathing vapour or mist. Use only in well ventilated areas or in a chemical fume hood.

Perfectly ground equipment to avoid charging with static electricity.

Avoid releasing this product to the environment.

Conditions for Safe Storage

Store in the closed original container, in a dry, cool, well-ventilated area out of direct sunlight. Do not store with seed, feed or foodstuffs. Keep away from sparks, open flames or other sources of ignition. Keep container tightly closed as product is hygroscopic. Avoid direct contact with oxidizing agents or organic peroxide.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards

No exposure standards have been set for the components of this product.

Biological Limit Values

None allocated

Engineering Controls

Control process conditions to avoid contact. Use local exhaust Ventilation to control vapour. Provide safety shower and eye washes in work area.

Respiratory Protection	If working in enclosed areas, a respirator with either an organic or vapour-removing cartridge with a pre-filter approved for pesticides, or a canister approved for pesticides (AS/NZS 1715/1716)
Eye Protection	safety goggles or face shield.
Hand and body Protection	Butyl rubber gloves and long sleeved shirt and long pants or overalls buttoned to the neck and wrist.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Pale yellow transparent liquid
Odour	Slight amine-like odour
Melting Point	<-5°C
Boiling Point	202°C (N-methyl-2-pyrrolidone), 189°C (dimethyl sulfoxide)
Solubility in Water	Soluble
pH Value	5-7
Vapour Pressure	Not available
Vapour Density (Air=1)	Not available
Density	1.11 g/cm ³
Flash point	102°C
Log P_{ow}	0.79 (active ingredient)

10. STABILITY AND REACTIVITY

Chemical Stability	Stable at normal temperatures and storage conditions.
Incompatible Materials	Strong bases, strong acids, oxidising and reducing agents, acid chlorides, bleaching agents, chlorine, chromates, oxygen, percarbonates, perchlorates, permanganates, peroxides, phosphorus acids, trichloroacetic acid.
Hazardous Decomposition Products	CO, NO _x , SO _x , HCl and organic compounds on combustion. Polymerisation will not occur.

11. TOXICOLOGICAL INFORMATION

Inhalation	Low inhalation toxicity. LC50 (4hr) (rat) >6.54 mg/L.
Oral Ingestion	poisonous if swallowed. Acute LD ₅₀ (rat)- 580 mg/kg, LD50 (mouse) 404 mg/kg (male, 335 mg/kg (female).

Skin Irritation	Skin irritation (rabbit): Negative.
Dermal Toxicity	LD ₅₀ (rat) >2000 mg/kg.
Sensitisation	Dermal (Guinea Pig): Negative
Eye Irritation	Eye (rabbit): Moderate.
Chronic Effects	Chronic toxicity/ Carcinogenicity test (2 yeats) (active ingredient) NOEL (rat): 7.1 mg/kg/day (male), 8.8 mg/kg/day (female), Carcinogenicity: Negative.
Mutagenicity (active ingredient)	Ames test: Negative Rec-Assay: Negative UDS test: Negative Chromosomal aberration test: Positive Micronucleus test: Negative
Teratogenicity (active ingredient)	Teratogenicity (rat, rabbit): Negative
Reproductive Toxicity (active ingredient)	2-generations reproductive test (rat): Reproductive Toxicity: Non-toxicity.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Acute toxicity to aquatic organisms: Acute Toxicity to Fish (carp): LC ₅₀ (96hr) 386 mg/L Acute Toxicity to Daphnia: EC ₅₀ (48hr) 557 mg/L Acute Toxicity to Algae: EbC ₅₀ (72hr) 560 mg/L
Persistence and degradability	Not readily biodegradable (as active ingredient). This substance is not bioaccumulative (as active ingredient).
Mobility	No information available
Environ. Protection	Do not contaminate streams, rivers or other waterways with the chemical or used container.

13. DISPOSAL CONSIDERATIONS

- 1) Burn in a chemical incinerator equipped with an afterburner and an alkaline scrubber, in accordance with Federal, State or local regulations.
- 2) Do not discharge into waterways or sewer systems unless permission has been obtained by the local authority and suitable dilution has been established.
- 3) Contaminated empty containers must be disposed of as chemical waste.
- 4) Obey all Federal, State and local regulations for health and safety and environmental protection in treating the waste.

14. TRANSPORT INFORMATION

UN-No.: Not applicable

ADR/RID Not classified as dangerous goods for the purpose of transport by road or rail.

Proper Shipping Name: Not applicable
Class: Not applicable
Packing Group: Not applicable

IMDG/IMO Not classified as dangerous goods for the purpose of transport by sea.

Proper Shipping Name: Not applicable
Class: Not applicable
Packing Group: Not applicable

ICAO Not classified as dangerous goods for the purpose of transport by road or rail.

Proper Shipping Name: Not applicable
Class: Not applicable
Packing Group: Not applicable

Hazchem Code: Not applicable

15. REGULATORY INFORMATION

Under the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP), this product is a schedule 6 poison.

This product is registered under the Agricultural and Veterinary Chemicals Code Act 1994. APVMA Product Registration Numbers 58558 and 56475.

16. OTHER INFORMATION

Abbreviations and Acronyms: APVMA – Australian Pesticides and Veterinary Medicines Authority

Data Sources: Manufacturers product safety data

Date of preparation or last revision June 2012

END OF SAFETY DATA SHEET