

Material Safety Data Sheet

Revision date: November 2016

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

Product Name:	Crown 225SL Systemic Insecticide
Product Code:	P70109
Recommended use:	Insecticide for ornamental horticulture
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS ACETAMIPRID)
Supplier:	Everris Australia Pty Ltd, 211/33 Lexington Drive, Bella Vista, NSW 2153, Australia. Tel: +61(2) 8801 3300
Australian Business Number:	31 003 123 162
Emergency telephone number:	Australia: (02) 801 44558 New Zealand: (09) 992 1483

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Mixture

Signal word: Danger

Hazard Statements

H302 Harmful if swallowed.
H360 May damage fertility or the unborn child
H371 May cause damage to organs if ingested
H410 Very toxic to aquatic life with long lasting effects
H423 Harmful to the soil environment
H432 Toxic to terrestrial vertebrates
H443 Harmful to terrestrial invertebrates

Prevention

P103 Read label before use.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P281 Use personal protective equipment as required.

Response

P101 If medical advice is needed, have product container or label at hand.

P301 + P312 IF SWALLOWED: call a POISON CENTRE or doctor if you feel unwell.

P308 + P313 IF exposed or concerned: Get medical advice.

P309 + P311 IF exposed or if you feel unwell: call a POISON CENTRE or doctor.

P330 Rinse mouth if exposed to product.

P391 Collect spillage.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents and containers as specified on the label.

Pictograms:

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredients	CAS	Proportion
Acetamidrid	135410-20-7	10-<30 %
Dimethyl Sulfoxide	67-68-5	30-60 %
N-methyl-2-pyrrolidone	872-50-4	30-60 %
Other ingredients determined not to be hazardous	-	<10 %

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 swallowed, contact a doctor or Poisons Information Centre if you feel unwell. Wash out mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.
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	Not known.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Foam, dry chemical, carbon dioxide, water spray (fog). Contain all runoff.
Hazards from Combustion Products	This product may evolve harmful and irritant gas and fumes such as CO, NO _x , SO _x , 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

Ingredient	Australia TWA (ppm)	Australia STEL (ppm)	Australian Carcinogens
N-Methyl-2-pyrrolidone	25	75	Not listed

Biological Limit Values	None allocated
Engineering Controls	Control process conditions to avoid contact. Use local exhaust ventilation to control vapor. 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	Chemical resistant 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)	3.42 (N-methyl-2-pyrrolidone), 2.7 (dimethyl sulfoxide)
Density	1.11 g/cm ³ at 20°C
Flash Point	102°C (Cleveland open cup)
Low 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 years) (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
Environmental 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

ADR/RID:

Proper Shipping Name: Not classified as dangerous goods for transport by road or rail in Australia due to special provision SP No. AU01.

IMDG/IMO:

UN No. 3082
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS ACETAMIPRID)
Class: 9
Packing Group: III

ICAO:

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Class: 9
Packing Group: III
Hazchem Code: 3Z



15. REGULATORY INFORMATION

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

EPA Approval code: HSR100918

16. OTHER INFORMATION

Data Sources: Manufacturers product safety data
NZ EPA Hazard Classification
Date of preparation: November 2016

END OF SAFETY DATA SHEET