Revision date: October 2021

Safety Data Sheet

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

Australia

Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.

Classified as not Dangerous goods for transport by road or rail. Exempt from classification as a Dangerous Good as per special provision SP no. AU01. For transport via air or shipment over water use Class 9 PG III, UN 3082, Hazchem code 3Z.

New Zealand

Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

Classified as Dangerous Goods for transport, according to the New Zealand Standard NZS 5433:1999 Transport of Dangerous Goods on Land.

GHS Classification:
Acute Toxicity – oral – category 4
Toxic to reproduction – category 1B
Specific Target Organ Toxicity – oral – category 2
New Zealand: 6.1D (oral), 6.8A 6.9B (oral), 9.1A, 9.2C, 9.3B, 9.4C

GHS 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:



Exclamation mark, Health hazard, Hazardous to the environment.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredients	CAS	Proportion
Acetamiprid	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	On combustion toxic fumes such as oxides of carbon, nitrogen and sulphur, hydrogen chloride and other toxic substances may be emitted and may form an explosive mixture with air.
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.
Hazchem code	3Z

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 SDS.
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.

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 $P_{o/w}$ 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. NOx, SOx, 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.
Class:	(CONTAINS ACETAMIPRID)
Packing Group:	9
	III

ICAO:

UN No.	3082
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Class:	(CONTAINS ACETAMIPRID)
Packing Group:	9
	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
APVMA approval number: 58558

16. OTHER INFORMATION

Data Sources:	Manufacturers product safety data
	NZ EPA Hazard Classification
Date of preparation:	October 2021

END OF SAFETY DATA SHEET