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1. Identification of the Substance/Mixture and Supplier.		
Product name:	Calypso	
Other names:	Calypso SC480, YRC 2894	
Recommended Use:	A systemic insecticide of insects in apples, avocados, kiwifruit and stonefruit.	
Company details:	Bayer New Zealand Limited, 3 Argus Place, Hillcrest North Shore 0627 New Zealand.	
Telephone:	0800 428 246	
Facsimile:	09 441 8645	
Emergency telephone:	0800 734 607 Orica SH&E Shared services (24hr)	
2. Hazards Identification.		
Hazard classification:	Classified as hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.	
Classification and type:	HSNO Class* 6.1D, 6.7B, 6.8B, 6.9B, 9.1A, 9.2C, 9.3B, 9.4C May be harmful if swallowed, inhaled or absorbed through the skin. Harmful – suspected of causing cancer. Harmful – may cause reproductive/development damage from repeated oral exposure. Harmful – presumed to/may cause organ damage from repeated oral exposure at high doses. Toxic to aquatic organisms. Harmful to the soil environment. Toxic to terrestrial vertebrates. Harmful to terrestrial invertebrates.	
Risk & Safety Phrases:	R22, R40, R50, R62,	
3. Composition/Information on Ingredients.		
	Pure Substance:	
Chemical identity of pure Substance:	n-[3-(6-chloro-pyridin-3-ylmethyl)-thiazolidin-2-ylidene]-cyanamide. thiacloprid	
Chemical Identity of Ingredients:	Mixture:	
	Ingredient	CAS No.
	thiacloprid	111988-49-9
	other ingredients determined not to be hazardous	48%
		52%

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Description of necessary first aid measures:	In case of poisoning by any exposure route contact the National Poisons and Hazardous Chemicals Information Centre, PO Box 913, Dunedin. Phone 0800 764 766, 0800 POISON.
Workplace facilities:	No specific facilities required. Standard emergency equipment must be available.
Hygiene Practices:	Avoid contact with skin and eyes and inhalation of concentration or spray mist. When mixing or applying, wear protective clothing, including face shield, impervious gloves and footwear. If clothing becomes contaminated with product, remove clothing immediately. DO NOT eat, drink or smoke while using. Wash hands and exposed skin thoroughly with soap and water before meals and after work. Wash protective clothing daily after work.
Poisoning symptoms:	No case of human poisoning due to this product is on record.
Eye:	If product gets in eyes wash it out immediately with water.
Skin:	If skin contact occurs remove contaminated clothing and wash affected areas thoroughly with soap and water.
Inhaled:	Move person to fresh air and keep at rest until recovered. Apply artificial respiration if necessary.

5. Fire-Fighting Measures.

Fire Hazard Properties:	In the event of fire, the following can be released: Hydrogen chloride (HCl) Hydrogen cyanide (hydrocyanic acid) Carbon monoxide (CO) Sulphur dioxide (SO ₂) Nitrous gases (NO _x)
Extinguishing media:	Water spray, carbon dioxide (CO ₂), foam, sand
Recommended Protective clothing:	When fighting a major fire wear an air-supplied respirator. Wear protective equipment.

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6. Accidental Release Measures.	
Personal Precautions:	<p>Emergency Procedures: Ensure suitable personal protection during removal of spillages. This means wearing eye protection, chemically resistant gloves, boots and overalls.</p>
Environmental Precautions:	Washings must be prevented from entering surface water drains or waterways.
Procedure for spill:	<p>Keep all bystanders away. Wear goggles, half face-piece respirator with combined dust and vapour cartridge, full length clothing and PVC gloves. Contaminated material must be disposed of in accordance with all local authority requirements.</p> <ul style="list-style-type: none"> • For quantities up to 50L of product bury in a secure approved landfill site. • For quantities greater than 50L seek advice from the manufacturer (use emergency contact number) before attempting disposal. Contain in a secure location until disposal method is established. <p>Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable.</p>
Procedure for Disposal:	<p>a) Triple rinsing or preferably pressure rinsing containers with water. Add the rinsings to the spray tank. DO NOT dispose of undiluted chemicals on site. b) Burning of empty containers if circumstances, especially wind direction, permit is an alternative method. Do not burn unless in a suitable incinerator. c) Product or unused spray mix should be disposed of according to label instructions.</p>
7. Handling and Storage.	
Handling Practices:	Avoid contact with skin and eyes and inhalation of concentrate or spray mist. When using, do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking.
Conditions for Safe Storage and Store Site Requirements:	Store in a cool, dry, well ventilated place and protect from sunlight. Do not store at temperatures below - 10°C.
Packaging:	Store in original container, tightly closed, away from foodstuffs.

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Engineering measures:	Use in well ventilated areas.
Respiratory protection:	Where insufficient ventilation, use suitable respiratory protection.
Hand protection:	Solvent resistant gloves.
Eye protection:	Chemical goggles/face protection.
Other protective equipment:	Wear suitable protective clothing.
Hygiene measures:	Avoid inhaling aerosols and vapours. Avoid contact with eyes and skin. Store work clothes and street clothes separately. Wash hand before breaks and at the end of work. Change contaminated protective clothing. Keep away from food, drinks and tobacco.

9. Physical and Chemical Properties

Form:	Liquid
Colour:	White-light beige
Odour:	Slight, original odour.
Vapour pressure:	Not known
Specific gravity:	Approx. 1.19gm/cm ³ @ 20°C
Solubility in water:	Miscible
pH:	6.5 – 8.0 (undiluted)
Flash point:	No flash point up to 100°C
Boiling point:	Not known
Viscosity:	45-55 sec. Flow time at 20°C
Density:	Ca. 1.19g/cm ³ at 20°C
OTHER PROPERTIES	
Dust explosion class:	Non-explosive
Corrosive:	Non-corrosive, alkaline

10. Stability and Reactivity

Stability of the Substance:	Stable under standard conditions.
Conditions to Avoid:	Not applicable
Materials to Avoid:	Not applicable
Hazardous Reactions:	Not applicable

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11. Toxicological Information	
Acute oral toxicity:	LD ₅₀ : rat (male) >300->500mg/kg
Acute dermal toxicity:	LD ₅₀ : rat >4000mg/kg
Acute inhalation toxicity:	LC ₅₀ : rat .0.9 - <2.2mg/L (4h) (as aerosol)
Skin irritation:	Non-irritant
Eye irritation:	Non-irritant
Sensitization:	Sensitizing (guinea pig)
Other information	
12. Ecological Information	
Acute fish toxicity:	LD ₅₀ : 80.7mg/l (96h); Bluegill sunfish(<i>Lepomis macrochirus</i>)
Toxicity for Daphnia:	EC ₅₀ : >85.1mg/l (48h); Water flea (<i>Daphnia magna</i>)
Toxicity for Algae:	IC ₅₀ : 96.7mg/l (72h); Green algae (<i>Desmodesmus subspicatus</i>)
13. Disposal Considerations.	
Product Disposal:	Dispose of this product only by using according to the label, or at an approved landfill or other approved facility.
Container Disposal:	Triple rinse the empty container adding rinseate to the spray tank. Recycle if possible. If allowed under local authority, burn if circumstances, especially wind direction permit, otherwise crush and bury in an approved local authority facility. Do not use container for any other purpose.
14. Transportation Information.	
Rail/Road (RID/ADR)	UN 2902 Pesticide, Liquid, Toxic, N.O.S, (thiacloprid solution) Class 6, Packing Group: III Hazchem 2X.
Sea (IMDG-Code)	UN 2902 Pesticide, Liquid, Toxic, N.O.S, (thiacloprid solution) Class 6, Packing Group: III Hazchem 2X. Marine Pollutant for Marine Transport Only.
Air (ICAO/IATA)	UN 2902 Pesticide, Liquid, Toxic, N.O.S, (thiacloprid solution) Class 6, Packing Group: III Hazchem 2X.

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15. Regulatory Information.	
HSNO Approval Number:	HSR000715
HSNO Controls (inc. Tracking):	See www.epa.govt.nz for controls.
Approved Handlers required:	Approved Handlers required at time of use.
ACVM Registration:	P 5664
ACVM Controls:	See www.foodsafety.govt.nz for registration conditions.
16. Other Information.	
<p>6.1D May be harmful if swallowed, inhaled or absorbed through the skin.</p> <p>6.7B Harmful – suspected of causing cancer.</p> <p>6.8B Harmful – may cause reproductive/development damage from repeated oral exposure.</p> <p>6.9B Harmful – presumed to/may cause organ damage from repeated oral exposure at high doses.</p> <p>9.1A Toxic to aquatic organisms.</p> <p>9.2C Harmful to the soil environment.</p> <p>9.3B Toxic to terrestrial vertebrates.</p> <p>9.4C Harmful to terrestrial invertebrates.</p>	
<p>R22 Harmful if swallowed.</p> <p>R40 Limited evidence of carcinogenic effect.</p> <p>R50 Very toxic to aquatic organisms.</p> <p>R62 Possible risk of impaired fertility.</p>	

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The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.