

### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY:

#### **CYHELLA**

SUPPLIER NAME: Zelam Limited  
SUPPLIER CODE: None  
SUPPLIER ADDRESS: Hudson Road, Bell Block, New Plymouth, New Zealand  
SUPPLIER PHONE: +64 6 755 9234 SUPPLIER FAX: +64 6 755 1174  
EMERGENCY PHONE: 0800 243 622, 0800 CHEMCALL  
CHEMICAL FAMILY: Synthetic pyrethroid USE: Insecticide

### 2. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Inerts		Balance	
Lambda Cyhalothrin	91465-08-6	> 20%	Class 6, 9.

### 3. HAZARDS IDENTIFICATION:

Toxic - may be fatal if swallowed, inhaled or absorbed through the skin.  
Harmful - may cause skin irritation. Avoid contact with skin.  
Harmful - may cause eye irritation. Avoid contact with eyes.  
Toxic - may cause organ damage from repeated oral exposure at high doses.  
Very toxic to fish/aquatic organisms with long-lasting effects. Avoid contamination of any water supply with product or empty container.  
Toxic to terrestrial vertebrates [birds].  
Very Toxic to terrestrial invertebrates [bees].  
Refer to Section 15 for ERMA Requirements.

### 4. FIRST - AID MEASURES:

EYE CONTACT: Immediately flush with flowing water for at least 15 minutes. Seek medical attention if irritation persists.  
SKIN CONTACT: If on skin or clothing, remove any contaminated clothing at once, and wash skin thoroughly with soap and water. See a doctor if irritation persists.  
INHALATION: If inhaled, move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped. Use mouth to nose rather than mouth to mouth. Obtain medical attention.  
INGESTION: If swallowed, rinse mouth with water immediately. DO NOT induce vomiting. Seek medical attention.  
NOTES TO DOCTOR: No specific antidote. Treat Symptomatically.

### 5. FIRE FIGHTING MEASURES:

FLASHPOINT: >103 °C HAZCHEM Code: 2X  
FLAMMABLE LIMITS: Not available  
EXTINGUISHING MEDIA: Foam, Carbon dioxide, Dry chemical or Water spray (fog). Contain all runoff.  
THERMAL DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, hydrogen chloride, chlorine, fluorine and hydrogen fluoride.  
SPECIAL FIRE FIGHTING METHODS: Vapours may be toxic. Self contained breathing apparatus required. Do not allow contaminated run-off to enter drains.  
UNUSUAL FIRE OR EXPLOSION HAZARDS: None

### 6. ACCIDENTAL RELEASE MEASURES:

Use appropriate protective equipment. Clear area of unnecessary personal. Spills may be slippery and should be cleaned up immediately.  
Large spill: Dike and pump as much as possible to a salvage container. Absorb the remaining liquid and any small spills with clay granules, sand or other absorbent material and sweep to a waste container. Cover the spill area with water and absorb. Minimise runoff into waterways or drains.

Warning this substance is very toxic to aquatic organisms. Avoid contamination of any water supply with this substance or empty container.

### 7. HANDLING AND STORAGE:

Store in original container, tightly closed away from foodstuffs. Wash protective clothing daily after work.  
Toxic - Keep out of reach of children.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: None Set.  
EYE PROTECTION: Chemical goggles or face shield where splash may occur.  
RESPIRATORY PROTECTION: For splash, vapour or mist exposure wear a half face air purifying respirator which is approved for pesticides. Respirator selection is based on airborne concentrations.  
PROTECTIVE CLOTHING: When handling wear waterproof gloves, overalls and boots.  
VENTILATION: General (mechanical) room ventilation is considered satisfactory.  
HYGIENE PRECAUTIONS: Do not eat drink or smoke while working with this product. Remove clothing that becomes soaked or contaminated and wash before re-use. Wash hands before breaks and after work. The use of a skin barrier cream is useful to give additional skin protection.

### 9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR:	Viscous tan coloured suspension		
BOILING POINT:	100°C	pH:	5 - 8
DENSITY:	1.01	SETTING POINT:	Not available.
DECOMPOSITION TEMP:	Not available.	AUTOIGNITION TEMP:	Not available.
FLASHPOINT:	>103°C closed cup	VAPOUR DENSITY:	Not available.
EXPLOSION PROPERTIES:	Not available.	VAPOUR PRESSURE:	Not available.
SOLUBILITY:	0.005mg/L (lambda-cyhalothrin)		
OTHER DATA:	None		
OCTANOL / WATER PARTITION COEFFICIENT:	Kow LogP >7 (lambda-cyhalothrin)		

### 10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID: Stable under normal storage conditons. Keep in a cool place away from heat and away from open flames.  
MATERIALS TO AVOID: Incompatable with strong acids and bases and strong oxidising agents.  
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and hydrogen fluoride and other componds of fluorine.

### 11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL: >220 mg/kg [By calculation]  
ACUTE DERMAL: 2880 mg/kg [By calculation]  
ACUTE INHALATION: 11.0 mg/L [By calculation]  
OTHER TOXICITY INFORMATION: Toxic - may be fatal if swallowed, inhaled or absorbed through the skin.  
Harmful - may cause eye and skin irritation. Avoid contact with eyes and skin.  
Toxic - may cause organ damage from repeated oral exposure at high doses.

### 12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: Very toxic to fish LC 50 (96 hr) for rainbow trout, 0.00036 mg/L [By calculation].  
Soil Toxicity: Not toxic to worms  
Terrestrial Vertebrates - Birds: Toxic to birds. LD50 bobwhite quail, >5300 mg/kg. [By calculation].  
Terrestrial Invertebrates - Bees: Very toxic to bees.  
Very toxic to aquatic organisms. Avoid contamination of any water supply with this product or empty container.  
Toxic to terrestrial vertebrates [birds]  
Very Toxic to terrestrial invertebrates [bees]. Spray must not contact plants in flower if they are likely to be visited by bees.

### 13. DISPOSAL CONSIDERATIONS:

Triple rinse container and add residue to spray tank. Dispose of container at an approved landfill, or Agrecovery depot.  
Avoid contamination of any water supply, or stream.

### 14. TRANSPORT INFORMATION:

Proper Shipping Name:	PYRETHROID PESTICIDE LIQUID TOXIC	UN Hazard Class:	6.1
UN Number:	3352	Packing Group:	III
Hazchem Code:	2X		
Additional Information:	Contains Lambda Cyhalothrin.		

### 15. REGULATORY INFORMATION:

Record Keeping.  
A written record of each application or discharge must be kept where members of the public may lawfully be present or the substance is likely to enter the air or water and leave the area. The information must be kept for a minimum of three years.

Approved Handler.  
This product must be stored under the personal control of an approved handler at all times or it must be locked up. However if an approved handler is present at the facility where the substance is being handled, or the approved handler has provided guidance to the person in respect to the handling of the product and is present at all times a non approved handler may handle the product.

Tracked Substance.  
This is a tracked substance, the location and movement of this substance must be recorded at each stage of the products life cycle by the approved handler. These records must be kept for at least three years. The person in charge must ensure all approved handler and appropriate hazard classifications are met on transfer of this product.

ERMA Approval Code: HSR000336  
ACVM Pesticide Number: P007641  
See the ERMA Website for more details: www.ermanz.govt.nz

### 16. OTHER INFORMATION:

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.