





**MATERIAL SAFETY DATA SHEET**

Nufarm Number: 03534

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**ICON 10WP**

**HEALTH HAZARD INFORMATION**

**Acute Effects**

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms that may arise if the product is mishandled and overexposure occurs are:

**Eye**

May be an eye irritant.

**Skin**

Contact with skin may result in irritation. The component lambda-cyhalothrin can be absorbed through the skin. Effects of significant exposure may include those described for ingestion. May cause tingling, burning, itching or numbness in exposed areas, that can last up to 36 hours.

**Inhaled**

Inhalation of dust may result in respiratory irritation.

**Swallowed**

Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain, ataxia, unsteady gait, hyperexcitability, salivation, tremors and incontinence. Large doses may cause convulsions and loss of consciousness. If the victim is uncoordinated there is greater likelihood of vomit entering the lungs and causing subsequent complications.

**Other Health Effects**

No other data available.

**Chronic Effects**

No information available for the product.

**First Aid**

**Eye**

Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance.

**Skin**

Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Lambda-cyhalothrin can be absorbed through the skin with resultant toxic effects.. Wash affected areas with soap and water. Seek immediate medical advice.

**Inhaled**

Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.

**Swallowed**

Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.

**Other First Aid**

No additional data available.

**Advice to Doctor**

Treat symptomatically.

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**Toxicity Data**

No LD<sub>50</sub> data is available for this product, however, for the constituent:

	<u>Lambda-cyhalothrin:</u>	
Acute oral LD <sub>50</sub> (rat)	56-79mg/kg	19 – 31mg/kg (mice)
Acute dermal LD <sub>50</sub> (rat)	632 – 696mg/kg	
Inhalation LC <sub>50</sub> (rat)	0.06mg/L/4hr (total particulate)	
Skin:	Non irritant (rabbit)	Not a skin sensitiser (guinea pig)
Eyes:	Mild irritant (rabbit)	

Cyhalothrin technical: Carcinogenicity studies in rat and mouse and teratogenicity studies in rat and rabbit indicate that cyhalothrin is not carcinogenic nor teratogenic.

A three-generation reproductive study in rats fed 0, 10, 30 or 100mg/kg, revealed minor reproductive effects at the highest dose only (reduction in litter sizes and in weight gain of the pups).

ADI (Acceptable Daily Intake) for humans is 0.001mg/kg/day.

Non mutagenic in the Ames test.

**PRECAUTIONS FOR USE**

**Exposure Standards**

No exposure limits have been specifically assigned for this product, however, Workplace Exposure Standards for constituent:

	WES-TWA		WES-STEL		Notices
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
Lambda-cyhalothrin		0.04			sk

Sk: absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

**Engineering Controls**

Ensure ventilation is adequate and that air concentrations of components are controlled below recommended hygiene standard. Use with local exhaust ventilation or while wearing dust mask. Keep containers closed when not in use.

Facilities storing or utilising this material should be equipped with an eyewash facility and safety shower.

**Personal Protection**

Avoid all personal contact.

Wear overalls, safety boots, safety goggles, gloves and NIOSH approved half mask respirator with organic vapour cartridge + dust/mist prefilters.

Wash protective clothing before storage or reuse.

Wash thoroughly after handling and before eating, drinking or smoking.

**Flammability**

Combustible solid.

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**Environment**

No ecotoxicity data is available for this product, however, for the constituent Lambda-cyhalothrin:

**Aquatic toxicity:**

Very toxic to aquatic organisms.

LC <sub>50</sub> (96h)	Rainbow trout	0.36µg/L
LC <sub>50</sub> (96h)	Bluegill sunfish	0.21µg/L
LC <sub>50</sub> (96h)	Sheephead minnow	0.81µg/L
EC <sub>50</sub> (48h)	Daphnia magna	0.36µg/L

**Terrestrial Toxicity:**

Oral LD <sub>50</sub>	Mallard duck	>3950mg/kg
Dietary LC <sub>50</sub>	Bobwhite quail	>7530mg/kg/3d
Very toxic to bees		
Oral LD <sub>50</sub>	Bees	38ng/bee
Dermal LD <sub>50</sub>	Bees	909ng/bee

**Environmental Fate, Distribution and Persistence:**

Lambda-cyhalothrin, in common with other synthetic pyrethroids has a high Log P<sub>ow</sub>. However, since the compound is insoluble in water (thus limiting exposures to aquatic species) and is rapidly metabolised in animal systems the risk of bioaccumulation in an aquatic species is low. Leaching into ground water through a range of soil types is negligible. In soil it reportedly has a half life of up to 12 weeks.

**SAFE HANDLING INFORMATION**

**Storage and Transport**

ROAD TRANSPORT: Environmentally Hazardous Substance, Solid, N.O.S. (lambda-cyhalothrin)  
UN#3077 Hazchem 2Z  
Class 9 Packaging Group III

SEA TRANSPORT: Environmentally Hazardous Substance, Solid, N.O.S. (lambda-cyhalothrin)  
UN#3077 IMDG code page 150  
Class 9 Packaging Group III

STORAGE: Store in original container in a cool, dry, ventilated place away from direct heat or direct sunlight. Store away from foodstuffs, children and animals. Keep container sealed when not in use.

**Packaging and Labelling**

50gm foil sachets  
POISON – keep out of reach of children

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**NUFARM NZ**  
Division of Nufarm Limited  
2 Sterling Ave, Manurewa, Auckland  
P.O. Box 22407, Auckland 1133  
Telephone 0-9-268 2920 Fax 0-9-267 8444  
www.nufarm.co.nz

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#### Spills and Disposal

- Spills:** Wear protective clothing. Clear area of unprotected personnel. Eliminate all ignition sources and naked lights. Use non-sparking utensils. Sweep or vacuum up solids without generating dust eg. Dampen down with minimum water spray. Contain liquid spills and absorb with sand, soil or absorbent granules. Do not allow product or washings to enter the waterways or sewer. If spill does enter waterways contact the local authority. Collect in an appropriate sealable labelled container for disposal in an approved landfill.
- Product Disposal:** To avoid disposal all attempts should be made to utilise the product completely in accordance with it's registered use. Dilute unusable product according to the label and pour onto fallow land. Prevent the product from entering natural water sources.
- Container Disposal:** Ensure container is completely empty. Burn empty container if wind direction permits. Otherwise bury in landfill.

#### Reactivity Data

Combustible solid. In common with many organic chemicals, may form flammable dust clouds in air.  
May react with oxidising agents. Product is stable for at least 2 years under ambient storage conditions.

#### Fire/Explosion Hazard

Wear full protective clothing and self-contained breathing apparatus.  
Extinguishing media: Water fog, fine water spray, foam dry agent (carbon dioxide, dry chemical powder).  
On burning will emit toxic fumes.

### ADDITIONAL INFORMATION

#### CONTACT POINTS

**NORMAL HOURS:** Emergency Response Co-ordinator: (649) 268 2920  
**24Hr Tollfree Emergency No:** Phone: 0800 651 911

**IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE**  
**24Hr Emergency No:** National Poisons Centre Phone: 0800 764 766

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