with us you are growing goodness



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REG NO: 2000/010819/07 **VAT NO:** 4120189206

Safety Data Sheet

LAMBADA AQUAMUL - Reg. No: L 9583 (Act No 36 of 1947)

Date of issue: 24/10/2013 Date of revision: 26/06/2019

1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.			
Product name:	LAMBADA AQUAMUL		
Other means of identification:	Lambda-cyhalothrin 50 g/L EW		
UN number:	3082		
Recommended use:	Insecticide		
Restrictions on use:	No information available		
Distributed by:	MERIDIAN AGRITECH P O BOX 436 MODDERFONTEIN TEL 011 8228509 FAX 0866901386 MOBILE: 0834006056 www.agritech.co.za		
Emergency Number:	POISON CENTRE (UNITAS HOSPITAL) 012 664 1100 WESTERN CAPE POISONS TELEPHONE SERVICE 0861 555 777 RAPID SPILL RESPONSE 0800 775 3305 GRIFFON POISON CENTRE: 082 446 8946		
Chemical Name:	[1α(S*),3α(Z)]-(±)-cyano(3-phenoxyphenyl)methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate		
2) Classification of the substance / mixture:			
Classification of the product:			
Label elements:	Toxic Dangerous for the environment		
Health effects: eyes:	Risk of serious damage to eyes		
Health effects: skin:	May cause irritation		
Health effects: ingestion	Harmful if swallowed. May cause lung damage is swallowed		
Health effects: inhalation	Toxic by inhalation.		
Health effects: Other	No data available		
3) COMPOSITION / INFORMATION ON INGREDIENTS:			

Chemical name	% composition	CAS No.	EC No.	Classification according to Regulation EC 1272/2008 (CLP)	Classification according to 67/548/EEC
Lambda- cyhalothrin	5.5% w/w	91465-08-6	415-130-7	-	T, N; R21 R25 R26 R50/53
Solvent naphtha (petroleum) light aromatic solvent	20%	64742-94-5	265-199-0	-	Xn R65

Full text of R- and S-phrases: see section 15.

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41	FIRST	AIG	weas	ures:

Eye contact:

Rinse immediately with large amounts of clean water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Seek medical assistance immediately.

Skin contact:

Carefully remove contaminated clothing and decontaminate before reuse. Wash affected area with soap and water for 15 minutes. Seek medical aid if irritation persists.

Ingestion:

Never give anything by mouth to an unconscious person.

Do not induce vomiting. Keep patient at rest. See

medical assistance.

If vomiting occurs, keep the head lower than hips to prevent aspiration.

Remove the victim to fresh air. Keep the victim warm and at rest. If breathing is irregular or stops, administer artificial respiration. Call a physician or poison control centre immediately.

None known

Indication of immediate medical attention and special treatment needed: Advice to physician

Special hazards arising from the substance or mixture:

Most important symptoms and effects, acute and

Skin contact parasthesia effects (itching, tingling, burning or numbness) are usually transient, lasting up to 24 hours. Treat symptomatically.

5) Fire-Fighting Measures:

Unsuitable extinguishing media:

Inhalation:

delayed:

Suitable extinguishing media:

Small fires: Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Large fires: alcohol resistant foam.

Try to contain spills, minimise spillage entering drains or water courses.

Water spray may be used for the cooling of unaffected stock.

Avoid the use of a solid water stream as this may cause

Avoid the use of a solid water stream as this may cause spreading.

Fire may produce a dense black smoke containing hazardous products of combustion. Exposure to decomposition products may be a health hazard. Flash back is possible over a considerable distance.

Fire-fighting:	Remove spectators from the surrounding area. Isolate the affected area and evacuate downwind. Keep upwind, evacuate downwind. Use the appropriate type of extinguisher for the type of surrounding fire. Fight the fire from the maximum distance using an unmanned hose holder or monitor hoses. Keep containers cool by spraying with water. Contain run off to prevent entry into water or drainage systems. Avoid inhaling hazardous vapours and fumes from the burning materials. Remove unaffected containers from the fire area if possible and if safe to do so. Use as little water as possible. Dyke the fire control water for later disposal. Avoid the accumulation of polluted run-off from the site of the incident.
Protective clothing:	Full protective clothing and self-contained breathing apparatus
6) Accidental Release Measures:	
Personal precautions:	Avoid skin and eye contact. Do not breathe in the spray or fumes. For personal protection see Section 8. Beware of vapours accumulating to form explosive concentrations. Remove all sources of ignition. Be aware of flash back.
Environmental precautions:	Do not allow this product to enter drains or watercourses. Any spillages or uncontrolled discharges into any watercourses or public waters must be reported immediately to the police and to the Department of Water / Environmental Affairs.
Cleaning procedure:	Wear protective clothing. Clear area of unprotected personnel and keep unprotected personnel upwind. Recover the free liquid with explosion proof pumps, Contain and absorb spills with inert material such as clay, dirt, sand, diatomaceous earth, vermiculite or other suitable non-combustible absorbent material. Use an approved industrial vacuum cleaner for removal and place in suitable, dry and properly labelled waste containers. Wash area with water and detergent and absorb with further inert material. If the potential for fire exists, blanket the spill with foam as a precaution. If the product comes into contact with water, contain the contaminated water for later disposal. Prevent the material from spreading by damming in with an absorptive material. Do not flush the spilled material into the drains. If spill does enter waterways contact the local authority
Disposal:	Waste Disposal:
	Do not contaminate ponds, ditches or water ways with the product or used container. Do not dispose of the waste into the sewer. Where possible, recycling is preferable to disposal or incineration. If recycling is not possible, dispose of waste in accordance with local / national regulations.
	Container Disposal: Refer to the product label for instructions.
	In accordance with local and national regulations. Empty containers retain vapour and product residues. Refer to the product label for instructions. Triple rinse the empty containers. Empty containers should be takes to an approved waste handling site for recycling or disposal. Do not re-use the empty container for any other purpose

7) Handling & Storage:

Handling:	Harmful if inhaled or swallowed and irritating to the eyes and skin. Avoid contact with eyes and skin and avoid inhalation of the spray and vapour. Use with adequate ventilation. Wash hands before eating, drinking, smoking, chewing gum, or using the toilet. Use only in an area containing flame proof equipment. Operators should change and wash clothing each day. Immediately remove clothing of this product gets inside. Thereafter, wash the skin thoroughly with a non-abrasive soap and water and put on clean clothing. Do not apply directly to any areas where surface water is present, or to intertidal below the mean high water mark. Any water used to clean equipment must be disposed of correctly in order to avoid contamination. When transferring more than 5 Litres of this product, ground the container before handling in order to prevent static discharge (which may cause ignition). Do not cut, drill, weld or grind anywhere on or near this container.
Storage:	Store in accordance with local regulations. Store in the original, tightly closed container in an isolated, cool, dry, well-ventilated area away from sources of ignition and of heat. Keep under lock and key out of reach of children, unauthorised persons and animals. Keep away from food, drink and animal feeds. Keep away from combustible materials. Keep in an area equipped with sprinklers. Keep away from food, drink as well as animal feeding stuffs.
O) Farmanian Control / Barranal Bratastians	No smoking.
8) Exposure Control / Personal Protection:	
It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.	
PERSONAL PROTECTIVE EQUIPMENT:	Consult supplier to confirm that the equipment is suitable.
Clothing:	Select chemically resistant clothing based on the exposure and the potential for contact and the permeation / penetration characteristics of the clothing material. Wash with soap and water after removing the protective clothing. Decontaminate the clothing before re-use, or use disposable equipment such as suits, aprons, sleeves, boots etc. Wear as appropriate: An impervious suit.
Gloves:	Chemically resistant gloves should be used. The gloves should be certified to an appropriate standard. The gloves should have a minimum breakthrough time appropriate for the duration of exposure. The breakthrough time varies according to the material, thickness and the manufacturer. Gloves should be discarded and replaced if there is any sign of degradation or chemical breakthrough. Suitable material: Nitrile rubber.
Eye protection:	Tight-fitting safety goggles and a face shield.
Respiratory protection:	An approved particulate filter respirator may be needed until effective technical measures are installed. The protection provided by air-purifying respirators is limited. Use a self-contained breathing apparatus during emergency spills, when exposure levels are unknown, or under any circumstances where an air-purifying respirator

may not provide adequate protection. The limitations of the respirator use as specified by the approval agency and the

manufacturer must be observed.

Emergency eye wash:

Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

9) Physical & Chemical Properties:

Form: Liquid White Colour:

Odour: Characteristic

Odour threshold: No data available pH: Approximately 7.3

Melting point / Freezing point Initial boiling point and boiling range No data available Flash point: Does not flash

Evaporation rate: No data available No data available Flammability (solid, gas) Upper/ lower flammability or explosive limits: No data available

Vapour pressure: No data available Vapour density: No data available

0.954 q/L Relative density:

Solubility(ies) Technical material: In water 0.005 mg/l (20 °C). In acetone,

methanol, toluene, hexane, ethyl acetate >500 g/l.

Emulsifies in water.

No data available

Partition coefficient: n-octanol/water No data available **Auto-ignition temperature:** No data available

Viscosity: No data available

10) Stability & Reactivity:

Reactivity: No data available.

When stored appropriately this product should show no Chemical stability:

significant degradation for 2 years from the date of

manufacture.

Combustion or thermal decomposition may evolve toxic Hazardous decomposition product(s):

and irritant vapors.

Conditions to avoid: No data available

Incompatible materials: No data available

11) Toxicological Information:

Acute:

Oral LD50 > 400 mg/kg, rat Dermal LD50 >3600mg/kg, rabbit

Inhalation LC50 (4h): 0.06 mg/l air (total particulate) (Technical material)., rat

Skin irritation : High irritant Eye irritation : Moderate irritant

Sensitisation : Not a skin sensitizer (guinea pigs).

Other

Biodegradation:

Lambda-cyhalothrin is not persistent in soil (degradation half life 56 days) or water (degradation half life 7 days).

Bioaccumulative potential:

Lambda-cyhalothrin bioaccumulates.

12) Ecological Information:

Information below based on active ingredient:

Bees: LD₅₀ (oral) 909 ng/bee; (contact) 38 ng/bee

Birds: Acute oral LD50 for mallard ducks >3950 mg/kg. Dietary LC50 for quail >5300 mg/kg. No accumulation of residues in

eggs or tissues

Fish : LC₅₀ (96 h) for bluegill sunfish 0.21, rainbow trout 0.36 μ g/l.

Algae: ErC₅₀ (96 h) for Selenastrum capricornutum >1000 μg/l.

Worms: LC₅₀ for Eisenia foetida >1000 mg/kg soil.

Other aquatic species: Toxic to Daphnia magna, EC₅₀ (48 h) 0.36 µg/l.

Other beneficial spp. Toxic to some non-target arthropods. Effects under field conditions reduced, with rapid recovery.

Persistence/Degradability

Data given are for the active ingredient:

Soil/Environment Rapidly degraded in soil; DT50 for microbial degradation 23–82 d, for field soil 6–40 d. Strongly adsorbed to soil and sediment organic matter, Koc 330 000. Negligible potential for leaching of lambda-cyhalothrin and its degradation products through soil. Rapid dissipation from water in aquatic systems. DT50 for dissipation from surface waters in lab. water-sediment systems 5–11 h; in a microcosm, DT50 <3 h. Rapid and extensive degradation of parent compound in aquatic systems; DT50 for degradation in lab. water-sediment systems 7–15 d; in a microcosm, DT50 <3 h, DT90 <3 d.

Lambda-cyhalothrin is not persistent in water.

Bio-accumulation

Data given in this section are for the active ingredient:

Animals In rats, following oral administration, rapidly eliminated in urine and faeces. The ester group is hydrolysed, both moieties forming polar conjugates.

13) Disposal Considerations:

Waste Disposal: Do not contaminate ponds, ditches or water ways with the product or used container. Do not dispose of the waste into the sewer. Where possible, recycling is preferable to disposal or incineration. If recycling is not possible, dispose of waste in accordance with local regulations.

Container Disposal: Refer to the product label for instructions.

In accordance with local and national regulations.

Empty containers retain vapour and product residues.

Refer to the product label for instructions.

Triple rinse the empty containers.

Empty containers should be takes to an approved waste handling site for recycling or disposal.

Do not re-use the empty container for any other purpose.

14) Transportation Information:

UN Number: 2903

Road transport ADR/RID

CLASS: 3

PACKAGING GROUP: III

SHIPPING NAME: Environmentally hazardous substance, liquid N.O.S (Lambda-cyhalothrin)

Environmental hazards: Environmentally hazardous

Air transport: ICAO / IATA

CLASS: 3

PACKAGING GROUP: III

SHIPPING NAME: Environmentally hazardous substance, liquid N.O.S. (Lambda-cyhalothrin)

Environment hazards: Marine pollutant

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC code): NA

Maritime transport: IMDG

CLASS: 3.3

PACKAGING GROUP: III

SHIPPING NAME: Environmentally hazardous substance, liquid N.O.S. (Lambda-cyhalothrin)

Environment hazards: Marine pollutant

15) Regulatory Information:

Symbols: Xi - Irritant

N - Dangerous for the environment

T+: Toxic

F: Flammable

Risk - Phrase:

R10 - Flammable

R21 - Harmful in contact with skin.

R22 - Harmful if swallowed

R25 - Toxic if swallowed.

R26 - Very toxic by inhalation

R37/38 - Irritating to respiratory system and skin.

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 - Harmful: May cause lung damage if swallowed.

Safety - Phrase:

S1/2 - Keep locked up and out of reach of children.

S13 - Keep away from food, drink and animal feeding stuffs.

S20/21 - When using do not eat, drink or smoke.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S35 - This material and its container must be disposed of in a safe way.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

S38 - In case of insufficient respiration, wear suitable respiratory equipment.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S57 - Use appropriate container to avoid environmental contamination..

S60 - This material and its container must be disposed of as hazardous waste.

S61 - Avoid release to the environment. Refer to SDS.

Hazard Statements

N/A

16.Other Information

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

It is the responsibility of persons in receipt of this SDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with this product. If the recipient subsequently produces formulation(s) containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this SDS to their own SDS.

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