

## Safety Data Sheet

### LAMBADA AQUAMUL - Reg. No: L 9583 (Act No 36 of 1947) N-AR 1634

Date of issue: 24/10/2013

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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 <a href="http://www.agritech.co.za">www.agritech.co.za</a>
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:	[1 $\alpha$ (S*),3 $\alpha$ (Z)]-( $\pm$ )-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:	

Mixture:

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.

#### 4) First Aid Measures:

<p><b>Eye contact:</b></p>	<p>Rinse immediately with large amounts of clean water, also under the eyelids, for at least 15 minutes. Remove contact lenses. <b>Seek medical assistance immediately.</b></p> <p>Carefully remove contaminated clothing and decontaminate before reuse. Wash affected area with soap and water for 15 minutes. Seek medical aid if irritation persists.</p> <p>Never give anything by mouth to an unconscious person. <b>Do not induce vomiting.</b> Keep patient at rest. <b>See medical assistance.</b></p> <p>If vomiting occurs, keep the head lower than hips to prevent aspiration.</p> <p>Remove the victim to fresh air. Keep the victim warm and at rest. If breathing is irregular or stops, administer artificial respiration. <b>Call a physician or poison control centre immediately.</b></p> <p>None known</p> <p>Skin contact parasthesia effects (itching, tingling, burning or numbness) are usually transient, lasting up to 24 hours. Treat symptomatically.</p>
<p><b>Skin contact:</b></p>	
<p><b>Ingestion:</b></p>	
<p><b>Inhalation:</b></p>	
<p><b>Most important symptoms and effects, acute and delayed:</b></p>	
<p><b>Indication of immediate medical attention and special treatment needed: Advice to physician</b></p>	

#### 5) Fire-Fighting Measures:

<p><b>Suitable extinguishing media:</b></p>	<p>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.</p> <p>Avoid the use of a solid water stream as this may cause spreading.</p> <p>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.</p>
<p><b>Unsuitable extinguishing media:</b></p>	
<p><b>Special hazards arising from the substance or mixture:</b></p>	





<p><b>Emergency eye wash:</b></p>	<p>may not provide adequate protection. The limitations of the respirator use as specified by the approval agency and the manufacturer must be observed.</p> <p>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.</p>
<p><b>9) Physical &amp; Chemical Properties:</b></p>	
<p><b>Form:</b></p> <p><b>Colour:</b></p> <p><b>Odour:</b></p> <p><b>Odour threshold:</b></p> <p><b>pH:</b></p> <p><b>Melting point / Freezing point</b></p> <p><b>Initial boiling point and boiling range</b></p> <p><b>Flash point:</b></p> <p><b>Evaporation rate:</b></p> <p><b>Flammability (solid, gas)</b></p> <p><b>Upper/ lower flammability or explosive limits:</b></p> <p><b>Vapour pressure:</b></p> <p><b>Vapour density:</b></p> <p><b>Relative density:</b></p> <p><b>Solubility(ies)</b></p> <p><b>Partition coefficient: n-octanol/water</b></p> <p><b>Auto-ignition temperature:</b></p> <p><b>Viscosity:</b></p>	<p>Liquid</p> <p>White</p> <p>Characteristic</p> <p>No data available</p> <p>Approximately 7.3</p> <p>No data available</p> <p>No data available</p> <p>Does not flash</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>0.954 g/L</p> <p>Technical material: In water 0.005 mg/l (20 °C). In acetone, methanol, toluene, hexane, ethyl acetate &gt;500 g/l. Emulsifies in water.</p> <p>No data available</p> <p>No data available</p> <p>No data available</p>
<p><b>10) Stability &amp; Reactivity:</b></p>	
<p><b>Reactivity:</b></p> <p><b>Chemical stability:</b></p> <p><b>Hazardous decomposition product(s):</b></p> <p><b>Conditions to avoid:</b></p> <p><b>Incompatible materials:</b></p>	<p>No data available.</p> <p>When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.</p> <p>Combustion or thermal decomposition may evolve toxic and irritant vapors.</p> <p>No data available</p> <p>No data available</p>
<p><b>11) Toxicological Information:</b></p>	
<p>Acute:</p> <p>Oral LD50 &gt; 400 mg/kg, rat</p> <p>Dermal LD50 &gt;3600mg/kg, rabbit</p> <p>Inhalation LC50 (4h): 0.06 mg/l air (total particulate) (Technical material)., rat</p> <p>Skin irritation : High irritant</p> <p>Eye irritation : Moderate irritant</p> <p>Sensitisation : Not a skin sensitizer (guinea pigs).</p> <p>Other</p>	

**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:** LD<sub>50</sub> (oral) 909 ng/bee; (contact) 38 ng/bee

**Birds:** Acute oral LD<sub>50</sub> for mallard ducks >3950 mg/kg. Dietary LC<sub>50</sub> for quail >5300 mg/kg. No accumulation of residues in eggs or tissues

**Fish** : LC<sub>50</sub> (96 h) for bluegill sunfish 0.21, rainbow trout 0.36 µg/l.

**Algae** : E<sub>r</sub>C<sub>50</sub> (96 h) for *Selenastrum capricornutum* >1000 µg/l.

**Worms:** LC<sub>50</sub> for *Eisenia foetida* >1000 mg/kg soil.

**Other aquatic species:** Toxic to *Daphnia magna*, EC<sub>50</sub> (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 taken 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.

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