

Emergency Phone: +82 52 231 5201 LG Life Science Ltd. / Tech center 580, Whasan-ri, Onsan-eup, Ulju-gun, Ulsan Metrocity, 689-896, Korea

## LAMBDASTAR (Lambda-cyhalothrin 2.5% WG)

Effective Date : NA Product Code : -

### 1. Identification of the substance and company

Identification of the product: LAMBDASTAR (Lambda-cyhalothrin 2.5% WG)

**Use of the preparation**: INSECTICIDE – Water dispersible granules (WG)

**Supplier** LG Life Sciences UK, Ltd.

5th Floor, 17 Hanover Square, London W1S 1HU, United Kingdom

Tel: +44 20 7917 8500 Fax: +44 20 7917 8555

**Emergency telephone**: 91-562.04.20 (National Toxicology Institute –Madrid)

93-317.44.00 (National Toxicology Institute-Barcelona) 95-437.12.33 (National Toxicology Institute-Seville)

#### 2. Hazard Identification

Harmful if inhaled Harmful if swallowed Harmful in contact with skin

Classification of the preparation: XN N

R22; R51/53

Hazards identification: Harmful by ingestion. May irritate eyes. May cause skin

sensitization

Environment: Marine pollutant. Given the toxicity of to the

environment, take necessary precautions to avoid spillage in ponds,

rivers and sewage systems in general

Adverse effects (human health and environment): May be harmful by inhalation,

ingestion, in contact with eyes or if absorbed by skin. Moderately harmful to internal organs if swallowed. Damage depends on the quantity absorbed by the intestine. May cause long-term negative effects in the aquatic environment Toxic to aquatic organisms. Low hazard to terrestrial fauna. Compatible with

bees

**Symptoms**: May irritate eyes, skin, respiratory and digestive systems. Reddening and pain

in skin and eyes. Ingestion may induce abdominal pains and cough. Itching and burning symptoms by inhalation, convulsions, cough, breathing difficulties,

gasping and throat pain. Ataxia



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### 3. Composition / Information on Ingredients

DANGEROUS INGREDIENTS	CAS Nº	%	SYMBOLS	R PHRASES
LAMBDA-CYHALOTHRIN	91465-08-6	2.5% w/w	T+	R21; R25; R26;
50:50 MIXTURE OF:				
(s)- $\alpha$ -cyano- 3-phenoxybenzyl			N	R50/53
(Z) (1R, 3R)-3-(2-CHLORO-3,3,3-				
TRIFLUOROPROP-1-ENYL)-				
2,2-DIMETHYL CYCLOPROPANE C				
ARBOXYLATE				
**(R)- $\alpha$ -CYANO-3-PHENOXYBENZY				
L(Z)-(1S,3S)-3-(2-CHLORO-3,3,3-				
TRIFLUOROPROP-1-ENYL)-2,2-DIM				
ETHYLCYCLOPROPANE CARBOXYL				
ATE				
$C_{23}H_{19}CLF_3NO_3$				

#### 4. First Aid Measures

**General information**: Remove victim from exposure area to fresh air immediately. Remove contaminated clothes immediately and wash. Wash skin thoroughly with water and soap without rubbing (if there are no burns) for 15-20 minutes Control breathing: administer artificial respiration if necessary. Maintain airway if vomiting occurs

Keep victim at rest. Maintain body temperature. If victim is unconscious, lay on his/her side with head lower than the rest of the body and knees half-bent Warning: risk of hypersensibility reaction with bronchospasm

Take victim to the nearest medical facilities. Show label or container whenever possible

DO NOT LEAVE VICTIM UNATTENDED

**Inhalation:** Maintain airway. If breathing stops, administer artificial respiration. If breathing is difficult, administer oxygen if available. If victim is in a state of shock, keep at rest and cover with a blanket. Seek medical attention immediately. Symptomatic, sustained treatment

**Eye contact :** Wash eyes thoroughly with water or a saline solution for at least 15 minutes If there are symptoms of intoxication, seek medical attention immediately

**Skin contact**: Remove contaminated clothes immediately and wash. Wash skin thoroughly with water and soap (if there are no burns) without rubbing Seek medical attention immediately



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**Ingestion :** Do not induce vomiting if product has been swallowed. Do not administer anything by mouth. Seek medical attention immediately. Show label or container whenever possible

### 5. Fire-Fighting Measures

**Suitable extinguishing media :** Carbon Dioxide, dry chemical powder, sprayed water, alcohol-resistant standard foam. Avoid using water streams

**Special precautions:** Move containers away from fire area if possible. Maintain containers cool using water sprays. Do not scatter spilled material with high-pressure water streams. Dike and collect water and other materials used to fight fire for later disposal. Avoid breathing toxic fumes in case of fire. Keep upwind of fire. Fight fire from protected areas. Wear non-flammable protection clothes and an autonomous respiratory apparatus

**Fire and explosion hazard products**: Thermal decomposition of the product may include toxic Carbon, Nitrogen and Hydrogen Chloride and Hydrogen Fluoride fumes

#### 6. Accidental Release Measures

Personal precautions: Keep upwind. Avoid breathing sprayed, vapours and dust. Do not use contact lenses. Avoid contact with skin and eyes. Keep unnecessary people away. Adequate ventilation/respiratory protection. Use adequate protection equipment (section VIII)

Environmental precautions: Isolate and dike fire control water to avoid contamination of drains, soil, subterranean and surface waters, since product is toxic to aquatic organisms. Collect material in dry, clean containers for later disposal and/or reclamation. Inform responsible authorities in case of spills or uncontrolled discharges in waterways

**Methods for cleaning up :** Collect spilled material using an absorbing material or sand Do not touch spilled material. Stop spillage if this can be done without risk Use water sprays to reduce vapour

Place spilled material in clean, dry suitable containers and take away from contaminated area for later disposal in accordance with industrial residue norms Wash contaminated area with water and soap and collect washing waters in dry, clean suitable containers for later disposal. Decontaminate all tools, equipment and cleaning material which have been used



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### 7. Handling and Storage

**Handling conditions**: Avoid contact with eyes, skin or clothes. Use protective clothes and observe normal precautions for the handling of chemical products. Keep away from sparks, open flame, excessive heat and sunlight

Take precautionary measures against static electricity discharges. Do not breathe dust. Use natural or forced ventilation in handling areas. Do not eat, drink or smoke during handling. Wash face and hands before eating, drinking or smoking. Do not contaminate water with the product or its package. Do not clean the equipment used during the application of the product near surface waters Avoid contaminating water through road or farm evacuation systems Avoid contaminating waterways by drifts, due to hazards for the aquatic fauna Maintain a safety area of 10 metres as a buffer zone

**Storage conditions :** Store in tightly closed containers in a safe, cool, dry, well-ventilated area, keep out of reach of children

Do not store together with incompatible materials, strong oxidisers or in conditions of excessive heat. Keep away from open flame and sparks Do not eat, drink or smoke in areas which may be contaminated with the product Do not to contaminate water, fertilizers, food, fodder or forage. Do not to store at home. Store in places with restricted access. Keep away from food, drinks and feeding stuff

The product is stable for minimum 2 years when stored in its original closed container at room temperature. Keep away from direct sunlight and extreme temperatures

**Specific uses :** Agricultural insecticide for professional use. Use only on labelled crops, respecting doses and recommendations indicated on the label

### 8. Exposure Controls / Personal Protection

**Exposure limit values :** There are no exposure limit values established by the OSHA, NIOSH or ACGIH or INSHT for *Lambda*-cyhalothrin

### **Exposure controls:**

- Control of professional exposure : Risk evaluation

General measures of occupational health: Maintain workplace clean. Avoid contact with the product. Separate work clothes from other clothes. Change clothes if these are dirty or soaked. Wash hands before each rest period and at the end of the



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workday

**Respiratory protection**: Complete breathing apparatus with particle filter. Autonomous breathing apparatus in case of accident and during loading/mixing, application, repair and elimination of pesticide. Also, if the air purifiers fail to provide adequate protection, general ventilation system to reduce air concentration level

**Hand protection :** Gloves made of nitrile (green) or other chemical resistant material. Use new gloves when impermeability is not guaranteed

**Eye protection**: Adjustable splash-proof safety goggles or mask which resist dust of chemical products in accordance with the EN166 Standard. Avoid using lenses

**Skin and body protection :** Suitable waterproof protective clothing and apron which do not accumulate dust: Long-sleeved overall and chemical-resistant boots. Change clothes if these are contaminated with the product. Wash after handling, especially hands and parts of the body which may have been exposed. Launder clothes separately before reuse. Install safety showers and eye-washing facilities Do not smoke, eat or drink during handling

- Environmental exposure controls: Do not apply immediately after rain or irrigation, when
  plants are covered with dew or in very dry conditions or high temperatures. Toxic
  to aquatic organisms. May cause long-term effects in the aquatic environment
  Avoid the contamination of waters. Take precautions to prevent product reaching
  fluvial channels, water sources and public sewers. Inform responsible authorities
  in case of spills or uncontrolled discharges in waterways
- Environmental risk mitigation measures: In order to protect non-target aquatic organisms of the spraying effects, respect a buffer zone to aquatic bodies of 10 meters unsprayed

### 9. Physical and Chemical Properties

#### **GENERAL INFORMATION.**

**Appearance, physical state, colour :** light brown solid water dispersible granules with a free flowing consistency, uniform in size, approximately 5 mm in length

**Odour:** Characteristic



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#### IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION

**pH:** 6,46 (dilution at 1 % in Water CIPAC MT 75) Acidity or alkalinity not applicable : 6<pH<8

**Boiling point**: Not applicable

Flash point: Not flammable. Autoignition temperature: >400°C (EEC A16)

Flammability: Not flammable. Flame did not propagate along trail. (EEC A 10)

**Explosive properties**: Theoretical not explosive

Oxidising properties: Formulation is not oxidizing. Sample did not react vigorously

(EEC A 17)

**Vapour pressure (20°C):** 2 10<sup>-7</sup> Pa at 20 °C (extrapolated) (Tech. *Lambda*-cyhalothrin)

Relative density (bulk): 0,75 g/mL (CIPAC MT169.)

**Solubility**: Hydrosolubility: Insoluble in water. Dispersible

Liposolubility (solvent oil to be specified): Technical *Lambda*-cyhalothrin, at 21 °C, solubility >500 g/L in: hexane, toluene, dichloromethane, methanol,

acetone and ethyl acetate

Partition coefficient: n-Octanol/water: log P<sub>ow</sub> = 7 (Tech. Lambda-cyhalothrin)

Viscosity: Not Applicable

Vapour density: Not Applicable

Evaporation rate: Not Applicable

OTHER INFORMATION

**Melting point :** 49.2 °C (Tech. *Lambda-*cyhalothrin)

Suspensibility: 97.02% (CIPAC MT-168). CIPAC water D; concentration: 0.4g/L

Degree of dispersion: 94.51 % (CIPAC MT 174): CIPAC water type D at 20 °C

Wettability: <1second (CIPAC MT 53.3)



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Wet sieve: 1.41 % (CIPAC MT 167) Sieve mesh size: 75 µm

Particle size: (CIPAC MT 170)

Sieve mesh size (µm)	% retained	
500 μm	84.45	86.52
250 μm	14.65	13.22
125 µm	0.19	0.15
75 μm	0.09	0.08
base	0.1	0.04

**Dust content:** 1.5 mg "nearly dust free" (CIPAC MT 171)

Attrition resistance: 99.22 % (CIPAC MT 178)

Flowability: Simple passed straight through sieve (sieve size used: 4.75 mm)

(CIPAC MT- 172)

Tank washing: No peak above LOD /mL (0.00015 mg/mL)

Foam persistence: t=0; t=10s; t=1m; t=3m.; t=12m -: 0 mL (CIPAC MT-47 Agua CIPAC D;Conc. 20g/800L)

### 10. Stability and Reactivity

**Stability :** Stable in normal pressure and temperature conditions. Avoid contact with strong oxidisers. Product decomposes with emission of toxic fumes at high temperatures Does not undergo polymerization or produce hazardous reactions

Conditions and materials to avoid: Avoid contact with excessive heat, sparks, open flame or other sources of ignition. Toxic product. Avoid swallowing, inhalation of dust or contact with eyes and skin. Avoid contamination of water. Incompatible with strong oxidisers

**Decomposition products :** Thermal decomposition of the product may produce toxic Carbon, Nitrogen, Hydrogen chloride and Hydrogen fluoride fumes



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### 11. Toxicological Information

LAMBDASTAR(Lambda-cyhalothrin 2.5%) WG Acute toxicity Acute toxicity - ORAL 1000mg/kg ( ♀ ) DL <sub>50</sub> mg/kg p.c. (rat) **R22** Acute toxicity – DERMAL >2000 mg/kg (♀ y ♂) DL <sub>50</sub> mg/kg p.c. (rat) Acute toxicity – INHALATION >5.270 mg/L (♀ y ♂) CL <sub>50</sub> mg/L 4h. (rat) EYE IRRITATION (rabbit) Non irritant. (♀) SKIN IRRITATION (rabbit) Non irritant. (♂) SKIN SENSITIZATION (maximization test on Not a sensitizer ( $\forall y \land$ ) Guinea pigs, M&K test)

**Delayed effects after exposure :** (sensitisation, narcosis, carcinogenicity, mutagenicity, reproductive toxicity (developmental toxicity and fertility))

Immediate : NDA

**Chronic:** 

Chronic Toxicity	
NOEL (rat) 2 years	1,7mg/kg p.c.
NOAEL (rat)	2 mg/kg p.c.
Carcinogenesis	No
Mutagenesis	No
Effects on reproduction	No effects
Sensitisation	No

There is no correlation between long-term handling and risks if the product is used suitably

**Effects of exposure :** May produce transitory tingling or numbness in the exposed area (paresthesia) (24 hour duration). There is no evidence of long-term or cumulative effects

### 12. Ecological Information

### 1.- Ecotoxicity

**Aquatic Toxicity:** 

Acute:

**Toxicity fish:** 

Rainbow trout: CL  $_{50}$  (96h.)= 0,36 µg/l (*Lambda-cyhalothrin*) Bluegill sunfish: CL  $_{50}$  (96h.)= 0,21µg/l (*Lambda-cyhalothrin*) Lepomis macrochirus: CL  $_{50}$  (96h.)= 0,21 µg/l (*Lambda-cyhalothrin*)



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**Toxicity Daphnia:** Daphnia magna (48 h.) EC <sub>50</sub>= 0,36 g/l (*Lambda*-cyhalothrin)

**Toxicity Algae and other Aquatic Plants:** Algae (*Seleastrus capricornutum*): E<sub>r</sub>C<sub>50</sub> >1000 μg/l (*Lambda*-cyhalothrin)

Chronic:

**Toxicity Fish**: NOEC (28d) *Cyprinodon variegatus* 0,25 μg/l (*Lambda*-cyhalothrin) Toxicity test by means of water stream during the first living states

**Toxicity Daphnia**: Not available

Toxicity Algae and other Aquatic Plants: Not available

#### Toxicity to soil micro and macroorganisms:

Microorganisms: mineralization of Nitrogen= Effect <21% ammonification/nitrification at 1,25 kg/ha. Carbon Mineralization: No significant effects at 1,25 kg/ha
Macroorganisms: Earth worm CL<sub>50</sub>(14 d.)>1000 mg/kg soil (*Lambda*-cyhalothrin). NOEC= 100 mg/kg soil

#### Toxicity to other important organisms for the environment:

**Acute toxicity birds**: LD<sub>50</sub> (mallard duck)> 3950 mg/kg (*Lambda*-cyhalothrin)

**Toxicity bees (Lab. contact)**: LD<sub>50</sub> (48 h) = 0,038 μg/bee (*Lambda*-cyhalothrin) (Lab. oral) LD<sub>50</sub> = 0,91 μg/bee (*Lambda*-cyhalothrin) Field study on cereals (preliminary): NOAEC= 20 g/ha

Toxicity plants: Not available

#### **Ecotoxicology of LAMBDASTAR**

Acute tox honeybee	LD50=21,76µg fp/bee (oral, 48h)		
	LD50=3,65µg fp/bee (contact, 48h)		
Extended lab test-	LR50=0.0012 kg fp/ha (7d)		
T. pyri	reproduction effect: no more than 50% reduction		
Extended lab test-	LR50=0.8 kg fp/ha (48h)		
A. rhopalosiphi	reproduction effect :not significant for the tested		
	doses		



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- 2.- Mobility: Low lixiviation in soils of Lambda-cyhalothrin and its metabolites Not significant. It is strongly adsorbed to soil and organic matter sediments K<sub>OC</sub>: 38000 - 345000
- **3.- Persistence and degradability :** Degrades quickly in soils. Microbial degradation half life in soils of  $DT_{50}$ : 23-82 days; in field; 6-40 days. Hydrolytic and oxidative degradation also occur. Degradation in water is quick. In lab.:  $DT_{50}$ : 5-11 h In microcosmos  $DT_{50}$  <3 h.; Rapid and extensive degradation of the parent compound in aquatic systems. In aquatic laboratory sediments,  $DT_{50}$  is 7-15 days; in a microcosmos study  $DT_{50}$  <3 h and  $DT_{90}$  <3d
- **4.- Bioaccumulative potential:** Is not bioaccumulative in aquatic organisms. The rate of disappearance in water is even greater in the presence of plants, since extensive adsorption and an increase of degradation take place  $\log P_{ow} = 7.0 \ (Lambda-cyhalothrin.)$
- **5.- Other adverse effects:** The oxidative photochemical degradation of *Lambda*-cyhalothrin in air is DT<sub>50</sub> 4,1 h. (calculated). The volatilization from soil is not significant and from the very low leaves (88% of the applied quantity remain on the leaves after 24 h)

### 13. Disposal considerations

Adequate methods for the elimination of the preparation: The product must be eliminated taking into account that it is a dangerous product, both the substance itself and the container. Incineration with gas-washing equipment or disposal in approved waste collection points. Local and state laws must be observed. See Directive 91/156. Compare with National, Autonomous and Local Authorities Dispositions

Adequate methods for the elimination of the container: Rinse each container energetically three times and pour the rinsing waters into the sprayer tank.

When empty, this container is a toxic residue. The user is required to return it to a reception point of the integrated management system (SIGFITO - Integrated Management System for Phytosanitary Packaging) or to the sale point where it was purchased

### 14. Transport Information

ADR / RID

Class and packaging group: 9/III



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Hazard identification number: 90

Material Nº: 3077

Denomination: "UN3077, Environmentally hazardous substances, solid, n.o.s

(Lambda-cyhalothrin), 9, III"

### **Maritime Transport (IMDG)**

Class: 9/III UN Nº:3077

IMDG (page): 9029.

Marine Pollutant: YES Label: 9

### Air Transport (IATA /ICAO)

Class: 9 UN Nº: 3077

Packaging group: III Hazard label: 9

Technical Denomination: Environmentally hazardous substances, solid, n.o.s.

(contains Lambda-Cyhalothrin 2,5%)

### 15. Regulatory information

#### Labelling according to EC Directives

Hazardous components which must be listed on the label:

Lambda-cyhalothrin 2,5%)

Symbol (s) : XN Harmful

: N Dangerous for the environment

R-phrase (s) : R22 Harmful if swallowed

: R51/53 Toxic to aquatic organisms, may cause long-term

adverse effects in the aquatic environment

S-phrase (s) : S2 Keep out of reach of children

: S13 Keep away from food, drink and animal

feedingstuffs

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

: S23 Do not breathe spray

: 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



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#### **GHS-Labelling**

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

### **Pictogram**





Signal word : Warning

#### **Hazard statements**

: H302 Harmful if swallowed

: H312 Harmful in contact with skin

: H332 Harmful if inhaled

: H400 Very toxic to aquatic life

: H410 Very toxic to aquatic life with long lasting effects

#### **Precautionary statements**

: P261 Avoid breathing dust/fume/gas/mist/vapours/spray
: P264 Wash hands and skin thoroughly after handling
: P270 Do not eat, drink or smoke when using this product
: P271 Use only outdoors or in a well-ventilated area
: P273 Avoid release to the environment

: P280 Wear protective gloves/protective clothing/eye protection/face

protection

: P301 + P312 IF SWALLOWED : Call a POISON center or doctor/physician

if you feel unwell

: P302 + P352 IF ON SKIN : Wash with plenty of soap and water

: P304 + P340 IF INHALED : Remove victim to fresh air and keep at rest in a

position comfortable for breathing

: P312 Call a POISON center or doctor/physician if you feel unwell

: P322 Specific measures

: P363 Wash contaminated clothing before reuse

: P330 Rinse mouth



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: P391 Collect spillage

: P501 Dispose of contents/container in accordance with local regulations

Hazardous components which must be listed on the label : Lambda-Cyhalothrin 2.5% WG

#### 16. Other information

The information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication

Nothing herein is to be constructed as a warranty, express or otherwise. In all cases, it is the responsibility of the user to determine the applicability of such information or the suitability of any products for their own particular purpose