

## Section 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

# 1.1 Product Identifier

Product Name: Lambdastar® Product Code: 004-01

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Product Use: Insecticide

#### **1.3** Details of the supplier of the safety data sheet

Company:	Life Scientific Ltd, Block 4, Belfield Office Park, Beech Hill Road, Dublin 4 Ireland
Telephone:	+353 (0) 1 2832024
Email:	info@lifescientific.com
Web:	www.lifescientific.com

### 1.4 Emergency contact information

In case of Emergency: Tel. NHS 111

# Section 2. HAZARD IDENTIFICATION

# 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Acute Tox.	Category 4	H302
Acute Tox.	Category 4	H332
Aquatic Acute	Category 1	H400
Aquatic Chronic	Category 1	H410

# 2.2 Label Elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms:



Signal Word: Warning

#### Hazard Statements:

H302	Harmful if swallowed.
H332	Harmful if inhaled.
H410	Very toxic to aquatic life with long-lasting effects.

#### **Precautionary Statements:**



P102	Keep out of reach of children.
P261	Avoid breathing spray.
P264	Wash hands thoroughly after handling.
P312	Call a POISON CENTER/doctor if you feel unwell.
P391	Collect spillage.
P501	Dispose of contents/container according to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.
SP1	Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

# 2.3 Other Hazards

The mixture does not meet the criteria applicable to mixtures PBT or vPvB.

# Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

# 3.1 Substances

No substances fulfil the criteria set out in Annex II, Part A of the REACH Regulation (EC) No 1907/2006.

#### 3.2 Mixtures

Chemical Name	CAS No	EC No	Classification (Regulation(EC) No 1272/2008)	Concentration (% <sup>w</sup> / <sub>w</sub> )
Lambda-cyhalothrin	91465-08-6	415-130-7	Acute Tox. 3, H301 Acute Tox. 4, H312 Acute Tox. 2, H330 Aqua. Acute 1,H400 Aquatic Chronic 1, H410	5-10
*Propylene glycol	57-55-6	200-338-0	-	20 - 30
Solvent naphtha (petroleum), naphthalene	64742-94-5	265-198-5	Asp. Tox. 1 – H304 Chronic Aquatic Tox 2 – H411	5 – 10
1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9	Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Acute 1, H400	0.05 – 0.1

\*Substance for which there are exposure limits in the workplace.

# Section 4. FIRST AID MEASURES

# 4.1 Description of first aid measures

General information:	In the event of any complaints or symptoms, avoid further exposure. Treat symptomatically. If unwell, consult a physician showing the product container, label or this safety data sheet.
Inhalation:	If inhaled, remove victim to fresh air. If breathing is difficult, give oxygen. If breathing is irregular or stopped, give artificial respiration. Consult a physician or Poison Control Centre immediately.
Ingestion:	DO NOT induce vomiting unless directed to do so by a Poison Control Centre. Never give anything by mouth to an unconscious person. Rinse mouth with plenty of water. Seek medical advice immediately.
Skin contact:	Remove contaminated clothing immediately. Wash immediately with plenty of water. If skin irritation persists, consult a physician. Wash contaminated clothing before re-use.



Eye contact:

Remove contact lenses if present. Rinse immediately with plenty of water, with the eyelid open for at least 15 minutes. Obtain medical attention immediately.

# 4.2 Most important symptoms and effects, both acute and delayed

Skin contact paraesthesia effects (itching, tingling, burning or numbness) may occur lasting up to 24 hours. If these symptoms present at any time when handling product, cease use and consult a medical physician

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physicians: Skin contact paraesthesia effects (itching, tingling, burning or numbness) are transient, lasting up to 24 hours. Treat symptomatically. Contains petroleum distillates and/or aromatic solvents

# Section 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

For small fires:Use water spray, dry chemical, alcohol-resistant foam or carbon dioxide.For large fires:Use alcohol-resistant foam or water spray. Avoid using a solid water stream as it may cause the fire to scatter<br/>or spread.

#### 5.2 Special hazards arising from the substance or mixture

This product contains combustible organic components. Fire will produce a thick black smoke containing hazards products of combustion. Exposure to products of combustion may be a health hazard. Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus with full face shield. Fight fire from a safe distance and a protected location.

### Section 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use appropriate personal protective equipment, see section 8. For safe handling and storage, see section 7.

#### 6.2 Environmental precautions

Prevent further leaking or spillage if safe to do so. Prevent entry into sewers and public waters. In the event of a major spillage, contact an expert immediately. Notify appropriate authorities if the product enters sewers or public waters. Make provisions to collect extinguishing water after fires. If the product contaminates rivers and lakes or drains, inform respective authorities

### 6.3 Methods and materials for containment and cleaning up

Contain spillage. Use non-combustible absorbent material to absorb spillage and place in container for disposal according to local/national legislation.

#### 6.4 Reference to other sections

See Section 7 for information on handling and storage and Section 8 for information on PPE

#### Section 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

P270	Do not eat, drink or smoke when using this product.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.

#### 7.2 Conditions for safe storage, including any incompatibilities



No special storage conditions required. Keep containers tightly closed in a cool, dry and well-ventilated area. Keep out of reach of children. Keep separate from food, drink and animal feed.

# 7.3 Specific end use(s)

Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

# Section 8. EXPOSURE CONTROL/PERSONAL PROTECTION

# 8.1 Control parameters

Component	Exposure Limit	Value Type	Source
Lambda-cyhalothrin	0.04 mg/m <sup>3</sup>	8 h TWA	Supplier
Propane-1,2-diol	10 mg/m <sup>3</sup> particulates 150 ppm Total (vapour and particulates) 474 mg/m <sup>3</sup>	8 h TWA	UK EH40 Occupational Exposure Limits
Solvent naphtha (petroleum), heavy aromatic	15 ppm 100 mg/m <sup>3</sup>	8 h TWA	Supplier

#### 8.2 Exposure controls

Respiratory protection:	Protection provided by air-purifying respirators is limited. A combination gas, vapour and particulate respirator may be necessary until effective technical measures are introduced. Use self-contained breathing apparatus in case of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.
Skin protection:	Wear suitable chemical-resistant clothing based on the potential for skin contact. Wash body thoroughly with soap and water after removing protective clothing. Decontaminate protective clothing before re-use. Wear an impervious protective suit as appropriate.
Hand protection:	Use nitrile rubber or other suitable chemical-resistant gloves. Gloves should have a minimum breakthrough time that is appropriate to the duration of exposure. Gloves should be changed when breakthrough is suspected.
Eye protection:	Eye protection is not usually required. Follow any site-specific eye protection policies. Eye/face protection should be certified to EN 166.
Engineering measures:	Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. If airborne mists or vapours are generated, use local exhaust ventilation controls. Assess exposure and use appropriate additional measures to keep airborne levels below the relevant exposure limit. Where necessary, seek occupational hygiene advice.
Hygiene measures:	When using, DO NOT eat, drink or smoke. Wash hands and face with soap and water before breaks. Shower at the end of the workday. Decontaminate protective clothing before re-use.

# Section 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

#### Appearance

Form	Liquid – free from claying and sedimentation
Colour	Beige
Odour	Paint-like odour

# **Chemical properties**

pH (at 20°C): Melting point/freezing point: Initial boiling point and boiling range (°C): Flash point (°C): Evaporation rate: Flammability: Upper/lower flammability or explosive limits: 5.34 at 1% Not tested 100 > 103 at 102.3 kPa. Not tested Not tested Not tested



Vapour pressure: Vapour density: Density (g/ ml): Solubility(ies): Partition coefficient: n-octanol/water: Auto-ignition temperature: Decomposition temperature: Viscosity: Explosive properties: Oxidising properties: Surface Tension

Not tested 1.0225 at 20°C Miscible Not tested Not tested Not tested Not tested Not explosive Not oxidising 37.0 mN/m at 20 °C

Not tested

# 9.2 Other Information

None

# Section 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

No data is available.

# 10.2 Chemical Stability

This mixture is stable at the handling and storage conditions recommended in Section 7.

#### **10.3** Possibility of hazardous reactions

Exposed to high temperatures, the mixture may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and nitrogen oxide.

# 10.4 Conditions to avoid

Avoid: Heat

#### 10.5 Incompatible material

No data is available.

# 10.6 Hazardous decomposition products

Thermal decomposition may release / form:

- Carbon monoxide (CO)
- Carbon dioxide (CO2)

# Section 11. TOXICOLOGICAL INFORMATION

#### **11.1** Information on toxicological effects

334 mg/kg (males) and 404 mg/kg (females).
> 2000 mg/kg.
> 2.5 mg/L/4 h. Based on test results obtained with similar products.
Mild.
Non-irritant. May cause temporary itching, tingling, burning or numbness of exposed skin.
Likely to cause skin sensitisation.
No evidence of carcinogenic, teratogenic or mutagenic effects in animal experiments.

#### Section 12. ECOLOGICAL INFORMATION



# 12.1 Toxicity

# **12.2** Persistence and degradability

Stability in water:Lambda-cyhalothrin is not persistent in water.Stability in soil:Lambda-cyhalothrin is moderately persistent in soil.

# 12.3 Bioaccumulative potential

Lambda-cyhalothrin bioaccumulates.

#### 12.4 Mobility in soil

Lambda-cyhalothrin is immobile in soil and will not leach.

# 12.5 Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

#### 12.6 Other adverse effects

None

# Section 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Waste disposal procedures:	Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible, recycling is preferred to disposal or incineration. If recycling is not practical, dispose of in compliance with local regulations.
Contaminated packaging:	Empty remaining contents. Triple rinse containers. Do not re-use empty containers. Empty containers should be taken for local recycling or waste disposal.

# Section 14. TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO / IATA for air transport (ADR 2013 - IMDG 2012 - ICAO / IATA 2013).

#### 14.1 UN Number

3082

# 14.2 UN proper shipping name

Environmentally hazardous substance, liquid, N.O.S., (lambda-cyhalothrin and substituted benzenoid hydrocarbons).

#### 14.3 Transport hazard class(es)

9

#### 14.4 Packing group

Ш

# 14.5 Environmental hazards

Marine pollutant, Dangerous to the environment



# 14.6 Special precautions for user

None

# 14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC code

No Information available

# Section 15. REGULATORY INFORMATION

# 15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture relating to the classification and labelling contained in Section 3.

To avoid risks to man and the environment comply with the instructions for use.

The mixture contains no ' substances of very high concern "(SVHC) published by the European Chemicals Agency (ECHA) under Article 57 of REACH http://echa.europa.eu/uk/candidate-list- table

#### 15.2 Chemical safety assessment

None

# Section 16. OTHER INFORMATION

Full list of Hazard statements that were not given in full in sections 2 and 3.

H301 H302 H304	Toxic if swallowed. Harmful if swallowed.
H304 H312	May be fatal if swallowed and enters airways. Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H400	Very toxic to aquatic organisms.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

The information presented in this document is accurate to the best of our knowledge at the date of its publication. However, the information given is designed only as a guide for the methods of handling, storage, use, transportation and disposal of the product and is not considered a warranty or quality specification. Life Scientific Limited cannot be held responsible for any loss or damage resulting from the handling, storage, use or disposal of the product. The information contained in this document relates only to this specific product.

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