

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

1.1 Product Identifier

Product Name: LIFE SCIENTIFIC LAMBDA
Product Code: 004-01

Unique Formula Identifier (UFI) DRJT-14AP-A10P-9USA

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. NPIC +353 (01) 809 2166 (8.00 a.m. to 10.00 p.m. - Public)
Tel. NPIC +353 (01) 809 2566 (Healthcare Professionals)

Section 2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

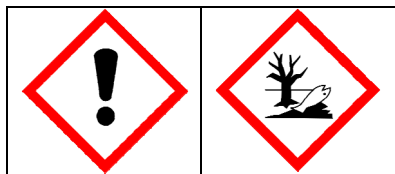
Classification according to Regulation (EU) No. 1272/2008

| | | |
|-----------------|------------|------|
| 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 (EU) 1272/2008

Hazard Pictograms:



Signal Word:

Warning

Hazard Phrases:

H302 Harmful if swallowed.
H332 Harmful if inhaled.
H410 Very toxic to aquatic life with long-lasting effects.
EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary Phrases:

P102 Keep out of reach of children.
P261 Avoid breathing spray.
P264 Wash hands thoroughly after handling.
P312 Call a POISON CENTRE/doctor/physician 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.

Other Phrases:

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.
SP 1 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).

2.3 Other Hazards

This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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 | EC | Classification (Regulation (EC) No 1272/2008) | Concentration (% w/w) |
|---|------------|-----------|--|--------------------------|
| 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 | 9.6 |
| *Propylene glycol | 57-55-6 | 200-338-0 | - | 20 - 30 |
| Solvent naphtha (petroleum), naphthalene | 64742-94-5 | 265-198-5 | Oral 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 Corr. 1A H314 Skin Sens. 1, H317 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 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 hazardous products of combustion. Exposure to products of combustion may be a health hazard. Do not allow run-off from firefighting 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

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

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 ³ | 8h TWA | Supplier |
| Propane-1,2-diol | 10 mg/m ³ particulates 150 ppm Total (vapour and particulates) 474 mg/m ³ | 8h TWA | UK EH40 Occupational Exposure Limits |
| Solvent naphtha (petroleum), heavy aromatic | 8 ppm 50 mg/m ³ | 8h 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

| | |
|---|--|
| Form | Liquid – free from claying and sedimentation |
| Colour | Beige |
| Odour | Paint-like odour |
| pH (at 20 °C) | 4 – 8 at 1% |
| pH (at 20°C): | 5.34 at 1% |
| Melting point/freezing point: | Not tested |
| Initial boiling point and boiling range (°C): | 100 |
| Flash point (°C): | > 103 at 102.3 kPa. |
| Evaporation rate: | Not tested |
| Flammability: | Not tested |
| Upper/lower flammability or explosive limits | Not tested |

| | |
|----------------------------|-----------------------------|
| Vapour pressure: | Not tested |
| Vapour density: | Not tested |
| Density (g/ ml): | 1.0225 at 20°C |
| Solubility(ies): | Miscible |
| Partition coefficient: | n-octanol/water: Not tested |
| Auto-ignition temperature: | Not tested |
| Decomposition temperature: | Not tested |
| Viscosity: | Not tested |

9.2 Other Information

9.2.1 Information with regard to physical hazard classes

| | |
|-----------------------|--------------------|
| Explosive properties: | Not explosive |
| Oxidising properties: | Not oxidising |
| Evaporation rate : | No data available |
| Surface Tension | 37.0 mN/m at 20 °C |

9.2.2 Other safety characteristics

None.

Section 10. STABILITY AND REACTIVITY

10.1 Reactivity

None reasonably foreseeable.

10.2 Chemical Stability

Hydrogen cyanide gas may develop in the headspace of containers at normal storage temperatures.

10.3 Possibility of hazardous reactions

Hazardous reactions: No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid: None known

10.5 Incompatible material

Materials to avoid: None known.

10.6 Hazardous decomposition products

Hazardous decomposition products: Hydrogen cyanide

Section 11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

| | |
|--------------------------|--|
| Product: | |
| LD50 oral rat: | 334 mg/kg (males) and 404 mg/kg (females) |
| LC50 inhalation rat: | > 2.5 mg/L/4 h. Based on test results obtained with similar products. |
| LD50 subcutaneous rat: | > 2000 mg/kg |
| Skin irritation (rabbit) | Non-irritant. May cause temporary itching, tingling, burning or numbness of exposed skin. |
| Eye irritation rabbit: | Mild. |
| Skin sensitization: | May cause skin sensitization in humans. Does not cause skin sensitization in guinea pig |
| Long-term toxicity: | No evidence of carcinogenic, teratogenic or mutagenic effects in animal experiments |

11.2 Information on other hazards

Endocrine disrupting properties

Product:
Assessment: The mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Section 12. ECOLOGICAL INFORMATION

12.1 Toxicity

LC50 mirror carp (96 h): 12 µg/L
EC50 Daphnia magna (48 h): 2.6 µg/L

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 Endocrine disrupting properties

Product:
Assessment: The mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 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 the product in accordance with the provisions of ADR for road, RID for rail, IMDG for the sea, and ICAO / IATA for air transport

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

III

14.5 Environmental hazards

Marine Pollutant. Dangerous to the environment

14.6 Special precautions for user

None.

14.7 Maritime transport in bulk according to IMO instruments

No Information available.

Section 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture

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 relevant hazard and precautionary statements that were not given in full in sections 2 and 3.

H301 Toxic if swallowed.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
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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