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

1.1 Product Identifier

Product Name: AMICUS SDS (UK)®
Product Code: 004-01

UFI Code: 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

UK ONLY In case of Emergency: Tel. NHS 111

Section 2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

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

Acute Tox (Oral)	Category 4	H302
Acute Tox.(inhalation)	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.

Precautionary Phrases:

P102	Keep out of reach of children.
P261	Avoid breathing spray.
P264	Wash hands thoroughly after handling.
P312	Call a poison center or doctor/physician if you feel unwell.
P391	Collect spillage.
P501	Dispose of contents/container to hazardous or special waste disposal point
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.

The product does not contain ingredients listed in the list drawn up in accordance with Article 59, paragraph 1, which have properties that disrupt the functioning of the endocrine system, nor substances that have properties that disrupt the functioning of the endocrine system in accordance with the criteria set out in Regulation 2017/2100/ EU or in Regulation 2018/605/EU in a concentration of ≥ 0.1% by weight.

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 (% $^{w}/_{w}$)
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	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 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

Hydrogen cyanide gas may be released during opening and dispensing. Avoid breathing air from container headspace. When using do not eat, drink or smoke. For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities

No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.

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	8 h TWA	Supplier
Propane-1,2-diol	10 mg/m^3 particulates 150 ppm Total (vapour and particulates) 474 mg/m^3	8 h TWA	UK EH40 Occupational Exposure Limits
Hydrocarbons, C10-C13, aromatics, <1% naphthalene	8 ppm 50 mg/m^3	8 h TWA	Supplier

8.2 Exposure controls

Respiratory protection: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Suitable respiratory equipment: Respirator with a particle filter (EN 143). The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Skin protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Remove and wash contaminated clothing before re-use.

Wear as appropriate: Impervious clothing.

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):	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.
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
Surface tension:	37.0 mN/m, 20 °C

9.2 Other Information

9.2.1 Information with regard to physical hazard classes

Explosives:	Not explosive
Oxidizing properties:	The substance or mixture is not classified as oxidizing.

9.2.2 Other safety characteristics

None

Section 10. STABILITY AND REACTIVITY

10.1 Reactivity

No data is available.

10.2 Chemical Stability

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

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

None known.

10.5 Incompatible material

None known.

10.6 Hazardous decomposition products

Hydrogen cyanide

Section 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

LD_{50} oral rat:	334 mg/kg (males) and 404 mg/kg (females).
LD_{50} subcutaneous rat:	> 2000 mg/kg.
LC_{50} inhalation rat:	> 2.5 mg/L/4 h. Based on test results obtained with similar products.
Eye irritation rabbit:	Mild.

Skin irritation rabbit:	Non-irritant. May cause temporary itching, tingling, burning or numbness of exposed skin.
Sensitisation guinea pig:	Likely to cause skin sensitisation.
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 substance/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

LC_{50} (Cyprinus carpio (Carp)):	0.012 mg/l Exposure time: 96 h
EC_{50} Daphnia magna Water flea:	0.0026 mg/l Exposure time: 48 h

12.2 Persistence and degradability

Stability in water:	Lambda-cyhalothrin is not persistent in water.
Biodegradability:	Not readily biodegradable.

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

This substance/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.

12.6 Endocrine disrupting properties

The substance/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

Product:	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 practicable, dispose of in compliance with local regulations.
Contaminated packaging:	Empty remaining contents. Triple rinse containers. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

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

III

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 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 relevant hazards 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.
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

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