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

1.1 Product Identifier

Product Name:	LS PYRAC
Product Code:	094-01
Unique Formula Identifier (UFI)	QVKY-3PNY-E206-MVHY

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

Product Use:	Fungicide

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. (oral)	Category 4	H302
Asp. Tox.	Category 1	H304
Skin Corr./Irrit.	Category 2	H315
Skin Sens.	Category 1	H317
Eye Dam./Irrit.	Category 2	H319
Acute Tox. (Inhalation - vapour)	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:

Danger

Hazard Phrases:

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
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 vapours.
P264	Wash contaminated body parts thoroughly after handling.
P280	Wear protective gloves/ protective clothing.
P312	Call a POSION CENTER or doctor/physician if you feel unwell.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists; Get medical advice/attention.
P391	Collect spillage.
P501	Dispose of contents/container to a licenced hazardous waste disposal contractor or collection site except for triple rinsed empty 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 (% $^{w}/_{w}$)
Pyraclostrobin	175013-18-0	613-272-00-6	Acute toxicity (inhal.) 3; H331 Skin corrosion/irritation 2; H315 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	19.2
C16-18 Alcohol ethoxylate propoxylate	68002-96-0	-	Aquatic Acute 1; H400	18 – 25
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., calcium salts (60%) 2-ethylhexanol (40%)	84989-14-0 104-76-7	284-903-7 203-234-3	Acute Tox. 4 (Inhal - mist) H332 Skin Corr./Irrit. 2 H315 Eye Dam./Irrit. 1 H318 STOT SE 3 H335 Aquatic Chronic 3 H412	2 – 4
Hydrocarbons, C10-C13, aromatics, <1% Naphthalene	64742-94-5	922-153-0	Aquatic Acute 2 H401, Aquatic Chronic 2 H411, Asp. Tox. 1 H304,	50 - 55

Section 4. FIRST AID MEASURES

4.1 Description of first aid measures

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

Inhalation:	Keep patient calm, remove to fresh air, seek medical attention.
Skin contact:	Immediately wash thoroughly with soap and water, seek medical attention.
Contact with eyes:	Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
Ingestion:	Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention. Do not induce vomiting due to aspiration hazard.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms:	Additional information on symptoms and effects may be included in the Section 2 and in Section 11 (Further) symptoms and / or effects are not known so far

4.3 Indication of any immediate medical attention and special treatment needed

Treatment:	Treat according to symptoms (decontamination, vital functions), no known specific antidote.

Section 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: water spray, carbon dioxide, foam, dry powder

5.2 Special hazards arising from the substance or mixture

Endangering substances:	carbon monoxide, Carbon dioxide, hydrogen chloride, nitrogen oxides, sulfur oxides, organochloric compounds
Advice:	The substances/groups of substances mentioned can be released in case of fire.

5.3 Advice for firefighters

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

Section 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

6.2 Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.
Do not allow contamination of public drains or surface or ground waters. Inform local water plc if spillage enters drains and the Environmental Protection Agency if it enters surface or ground waters. Keep people and animals away.

6.3 Methods and materials for containment and cleaning up

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Wear suitable protective equipment.

6.4 Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

Section 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:
Vapours may form ignitable mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

7.2 Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.
Further information on storage conditions: Keep away from heat. Protect from direct sunlight.
Store protected against freezing.

Protect from temperatures below: 0 °C

Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

7.3 Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

Section 8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

Component	Exposure Limit	Value Type	Source
2-Ethylhexan-1-ol	0.5 ppm	TWA	OEL (IE)

8.2 Exposure controls

Personal protective equipment

Respiratory protection: Suitable respiratory protection for lower concentrations or short-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic, alkaline compounds and toxic particles

Hand protection:	Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc
Eye protection:	Safety glasses with side-shields (frame goggles) (e.g. EN 166)
Body protection:	Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).
General safety and hygiene measures:	The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid.
Colour:	Light yellow
Odour:	Characteristic odour
Melting point (°C):	Not applicable
Freezing point (°C):	Not determined
Boiling point (°C):	Not determined
Lower and upper exp. Limit:	Not known
Flash Point:	117 °C.
Auto. Ignition temp (°C):	444 °C
Decomposition temp (°C):	Not determined
pH (at 20 °C):	4 - 10
Kinemaatic viscosity:	39.97 cSt (mm2/s) at 20 °C 16.31 cSt (mm2/s) at 40 °C
Solubility:	Emulsifiable.
Part. Coef. m-octanol/water:	Not applicable.
Vapour pressure:	Not determined
Density and/or relative den.:	1.0267 g/mL at 20 °C.
Relative vapour density:	Not determined
Particle characteristics:	Not applicable.

9.2 Other Information

9.2.1 Information with regard to physical hazard classes

Explosives:		Not Explosive.
Oxidising gases	:	Not Oxidising.
Flammability:		Not flammable

9.2.2 Other safety characteristics

None.

Section 10. STABILITY AND REACTIVITY

10.1 Reactivity

No hazardous reactions if stored and handled as indicated.

10.2 Chemical Stability

The product is stable if stored and handled as indicated.

10.3 Possibility of hazardous reactions

No hazardous reactions if stored and handled as indicated.

10.4 Conditions to avoid

See SDS section 7 - Handling and storage.

10.5 Incompatible material

Substances to avoid: Strong acids, strong bases, strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products:
No hazardous decomposition products if stored and handled as prescribed/indicated.

Section 11. TOXICOLOGICAL INFORMATION

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

LD_{50} oral rat:	Approx. 500 mg/kg (Similar Product)
LD_{50} dermal rat:	> 5,000 mg/kg (Similar Product)
Eye irritation rabbit:	Irritant.
Skin irritation rabbit:	Irritant.
Sensitisation guinea pig:	sensitizing.
Mutagenicity:	Not mutagenic.
Carcinogenicity:	Not carcinogenic.
Developmental Toxicity:	Not teratogenic.
Reproductive Toxicity:	Not reprotoxic.
Specific target organ toxicity (single exposure)	Causes temporary irritation of the respiratory tract Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.
Repeated dose toxicity and Specific target organ toxicity (repeated exposure)	The product has not been tested.
Aspiration hazard:	The product has not been tested. The statement has been derived from the properties of the individual components. May also damage the lung at swallowing (aspiration hazard).

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

LC_{50} *Cyprinus carpio* (96 h):	0.036 mg/l,
EC_{50} *Daphnia magna* (48 h):	0.065 mg/l,
EC_{50} *Pseudokirchneriella subcapitata* (72 h)	14.2 mg/l

12.2 Persistence and degradability

Not readily biodegradable

12.3 Bioaccumulative potential

The product has not been tested. The statement has been derived from the properties of the individual components.
Information on: pyraclostrobin (ISO)

Bioaccumulation potential:
Bioconcentration factor (BCF): 379 - 507, Oncorhynchus mykiss (OECD-Guideline 305)
Accumulation in organisms is not to be expected.

12.4 Mobility in soil

Adsorption in soil: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: pyraclostrobin (ISO); Assessment transport between environmental compartments:
Adsorption in soil: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

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

Must be sent to a suitable incineration plant, observing local regulations.

Contaminated packaging:
Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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. (contains PYRACLOSTROBIN, SOLVENT NAPHTHA)

14.3 Transport hazard class(es)

9.

14.4 Packing group

III.

14.5 Environmental hazards

Marine Pollutant. Yes
Environmental hazards: Yes

14.6 Special precautions for user

None known.

14.7 Maritime transport in bulk according to IMO instruments

Not evaluated.

Section 15. REGULATORY INFORMATION

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

Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 3

Restrictions of Regulation (EC) No 1907/2006, Annex XVII, do not apply for the intended use(s) of the product given in this SDS.

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):

List entry in regulation: E1

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

This product may be subject to the Seveso III Directive and amendments if specific threshold tonnages are exceeded.

For further medical advice Doctors should contact the National Poisons Information Centre at Beaumont Hospital, Dublin.

15.2 Chemical safety assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

Section 16. OTHER INFORMATION

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

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation.
H331	Toxic if inhaled
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful 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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