

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

1.1 Product Identifier

Product Name: LS- PYRAC
Product Code: 094-01

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. 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
Aspiration hazard	Category 1	H304
Skin Corrosion/ Irritation	Category 2	H315
Skin Sensitisation	Category 1	H317
Eye Irritation	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.
H400 Very toxic to aquatic life.
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 vapours.
P264 Wash contaminated body parts thoroughly after handling.
P280 Wear protective gloves/protective clothing.
P312 Call a POISON 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 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.

2.3 Other Hazards

Substance does/does not meet the criteria for vPvB according to regulation (EC) No 1907/2006, Annex III.

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 (ISO); methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3-yloxymethyl]phenyl}(Nmethoxy) carbamate	175013-18-0		Skin Corrosion/ Irritation 2; H315 Acute Tox. 3 (Inhalation- mist); H331 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	15-25%
Solvent naptha	64742-94-5	922-153-0	Asp. Tox. 1; H304 Aquatic Chronic 2; H411	50-60%
Alcohols, C16-18, ethoxylated propoxylated	68002-96-0		Aquatic Acute 1; H400	15-25%
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., calcium salts	84989-14-0	284-903-7	Skin Corrosion/ Irritation 2; H315 Eye Damage/ Irritation 1; H318 Aquatic Chronic 3; H412	1-5%
2-Ethylhexan-1-ol	104-76-7	203-234-3	Skin Corrosion/ Irritation 2; H315 Eye Damage/ Irritation 2; H319 Acute Tox. 4 (Inhalation - mist); H332 STOT SE 3; H335	1-5%

naphthalene	91-20-3	202-049-5	Acute Tox (Oral) 4; H302 Carcinogenicity 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	<0.5%
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Section 4. FIRST AID MEASURES

4.1 Description of first aid measures

General information:	Have the product container, label or Safety Data Sheet with you when calling the emergency number, a Poison Control Centre or physician, or going for treatment.
Inhalation:	Move to fresh air.. Keep patient warm and at rest. Call a physician or Poison Control Centre immediately.
Ingestion:	Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.
Skin contact:	Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms:	The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.
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4.3 Indication of any immediate medical attention and special treatment needed

Notes to physicians:	There is no specific antidote available. Treat symptomatically.
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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

Carbon monoxide, Hydrogen chloride, Carbon dioxide, nitrogen oxides, sulfur oxides, organochloric compounds. The substances/groups of substances mentioned can be released in case of fire.

5.3 Advice for firefighters

Special protective equipment for fire fighters: In the event of fire, wear self-contained breathing apparatus. Do not allow run-off from firefighting to enter drains or water courses. Cool closed containers exposed to fire with water spray. Do not use a solid water stream as it may scatter and spread fire.

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 allow contamination of public drains or surface or ground waters. Inform local water plc if spillage enters drains and the Environment Agency (England & Wales), the Scottish Environmental Protection Agency (Scotland), or the Environment and Heritage Service (Northern Ireland) 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. Cleaning operations should be carried out only while wearing breathing apparatus. 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.

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. Avoid contact with skin and eyes. No special precautions necessary.

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. Keep away from heat. Protect from direct sunlight. Keep containers tightly closed in a dry, cool and well-ventilated place. Store protected against freezing. Keep out of reach of children.

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
naphthalene	50 mg/m ³	TWA	HSE Guidance Note EH40 Occupational Exposure Limits (United Kingdom)

8.2 Exposure controls

When using this product refer to the label for details. In all other cases, use the following Personal Protective Equipment:

Respiratory protection: Suitable respiratory protection for higher concentrations or long-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

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).
Hand protection:	Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): 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)
Engineering measures:	Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne mists or vapours are generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Where necessary, seek additional occupational hygiene advice.
Protective measures:	The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Form:	Liquid.
Colour:	Light Yellow
Odour:	Characteristic

Chemical properties

pH (at 20 °C):	5-6
Flash Point:	117 °C
Oxidising properties:	Not Oxidising
Explosive properties:	Not Explosive
Density (at 20 °C):	1.04 g/cm ³
Solubility in water:	Miscible
Self ignition:	444 °C
Viscosity:	Dynamic: 41.04 mPa.s, Kinematic: 39.97 mPa.s (20 °C) Dynamic: 16.74 mPa.s, Kinematic: 16.31 mPa.s (40 °C)
Bulk density:	N/A
Vapour pressure:	0.003 kPa (20 °C) (approx.)

9.2 Other Information

None.

Section 10. STABILITY AND REACTIVITY

10.1 Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

10.2 Chemical Stability

The product is stable if stored and handled as prescribed/indicated.

10.3 Possibility of hazardous reactions

The product is stable if stored and handled as prescribed/indicated.

10.4 Conditions to avoid

See MSDS section 7 - Handling and storage.

10.5 Incompatible material

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

10.6 Hazardous decomposition products

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

Section 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Results based on a similar composition

LD ₅₀ oral rat:	500 mg/kg (OECD Guideline 423)
LD ₅₀ dermal rat:	> 5,000 mg/kg (OECD Guideline 402)
LC50 rat (by inhalation):	4.48 mg/l 4 h (OECD Guideline 403)
	An aerosol with respirable particles was tested.

Eye irritation rabbit:	Irritant. (OECD Guideline 405)
Skin irritation rabbit:	Irritant. (OECD Guideline 404)
Sensitisation guinea pig:	Caused skin sensitization

Mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

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

Naphthalene:
In long-term studies in rats and mice in which the substance was given by inhalation, a carcinogenic effect was observed. EU-classification The substance was classified as a group 3 carcinogen by the German MAK-Commission (substances for which a suspicion of a carcinogenic potential exists). IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).

Developmental Toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Reproductive Toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

Section 12. ECOLOGICAL INFORMATION

Results based on a similar composition.

12.1 Toxicity

LC ₅₀ <i>Oncorhynchus mykiss</i> (96 h):	0.036 mg/l,
EC ₅₀ <i>Daphnia magna</i> (48 h):	0.065 mg/l
EC50 <i>Pseudokirchneriella subcapitata</i> (72 h):	14.2 mg/l (growth rate)

12.2 Persistence and degradability

The product has not been tested. The statement has been derived from the properties of the individual components.
Pyraclostrobin: Not readily biodegradable (by OECD criteria).

12.3 Bioaccumulative potential

The product has not been tested. The statement has been derived from the properties of the individual components.
Pyraclostrobin: Bioconcentration factor: 379 - 507, *Oncorhynchus mykiss* (OECD-Guideline 305)
Accumulation in organisms is not to be expected.

12.4 Mobility in soil

The product has not been tested. The statement has been derived from the properties of the individual components.
Pyraclostrobin: 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 Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

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 practicable, dispose of in compliance with local regulations.

Contaminated packaging: Empty remaining contents. Triple rinse containers. Empty containers should be taken for local recycling or waste disposal. Do not re-use empty containers.

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 SOLVENT NAPHTHA, PYRACLOSTROBIN, FATTY ALCOHOL ETHOXYLATE).

14.3 Transport hazard class(es)

9.

14.4 Packing group

III.

14.5 Environmental hazards

Yes.
Marine pollutant.

14.6 Special precautions for user

Tunnel code: E

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

Not evaluated.

Section 15. REGULATORY INFORMATION

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

This product is classified under the European CLP Regulation. (United Kingdom)

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

This product may be subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments if specific threshold tonnages are exceeded (United Kingdom).

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. H351 Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

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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