

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

Product name : LS PYRAC
Product code : 094-01

Other means of identification
Unique identifier for
formulation (UFI): QVKY-3PNY-E206-MVHY

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

Product use : Fungicide

1.3 Information concerning the supplier of the safety data sheet

Company: Life Scientific Ltd, LIFE SCIENTIFIC FRANCE
Block 4, Belfield Office Park, 11-13 rue des Aulnes,
Beech Hill Road 69760 Limonest,
Dublin 4 France
Ireland
Telephone: +353 (0) 1 2832024 Freephone: 0 800 912 759 (free call from France)
Web: www.lifescientific.com a landline)
Email: info@lifescientific.com

1.4 Emergency contact

In case of emergency: Paris Poison Control Centre: 0140054848
See <http://www.centres-antipoison.net/> for emergency numbers in other provinces.

Section 2. HAZARD IDENTIFICATION
2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No. 1272/2008

Acute toxicity (oral)	Category 4	H302
Aspiration hazard	Category 1	H304
Skin corrosion/ Irritation	Category 2	H315
Skin sensitization	Category 1B	H317
Serious eye damage / eye irritation	Category 2	H319
Acute toxicity (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 or 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

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P261 Avoid breathing vapours.
P280 Wear protective gloves, protective clothing, eye and face protection.
P301+P310+P331 IF SWALLOWED: Call a POISON CENTER/ doctor immediately. DO NOT induce vomiting.
P337+P313 If eye irritation persists: get medical advice/ attention.
P391 Collect spillage.
P501 Dispose of contents/container to a licensed hazardous waste disposal collection site.

Hazard determining component(s) for labelling: pyraclostrobin (ISO), hydrocarbons, C10-C13, aromatics, less than 1% naphthalene – 2-Ethylhexanol Hydrocarbons, C10-C13, aromatics, less than 1% naphthalene – 2-Ethylhexanol

2.3 Other hazards

SP1 Do not contaminate water with the product or its packaging. Do not clean application equipment near surface water. Avoid contamination via drainage systems from farmyards or roads.
SPe3 To protect aquatic organisms, leave a 20-metre untreated buffer zone from surface waters in the case of 2 applications per year on the field.
SPe3 To protect aquatic organisms, leave a 5-metre untreated buffer zone from surface waters in the case of 1 application per year on the field.
SPe3 To protect non-target arthropods, leave a 5-metre untreated buffer zone from the adjacent non-agricultural land.
SPa1 To avoid the development of resistance, do not apply a strobilurin or a QoI fungicide more than 2 times per crop per year.

Re-entry time for treated areas: 48 hours.

This mixture does not contain any ingredients considered to be 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 fulfill 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)
Pyraclostrobin	175013-18-0	-	Skin Irrit. 2; H315 Acute Tox. 3 ; H331 Aquatic Acute 1; H400, Aquatic Chronic 1; H410	19.5%
Solvent naphtha, heavy aromatic (Hydrocarbons, C10-C13, aromatics, <1% Naphthalene)	-	-	Asp. Tox.1; H304 Aquatic Chronic 2; H411	45-55%
C16-18 alcohol ethoxylate propoxylate	68002-96-0	-	Aquatic Acute 1; H400	15-25%

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., calcium salts (60%) 2-ethylhexanol (40%)	84989-14-0	284-903-7	Eye Dam./Irrit. 1; H318 Skin Irrit. 2; H315 Acute Tox. 4 ; H332 STOT SE 3; H335 Aquatic Chronic 3; H412	1-5%
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For an explanation of abbreviations, see Section 16.

Section 4: FIRST AID

4.1 Description of first aid measures

General information:	In case of complaints or symptoms, avoid further exposure. Treat symptoms. In the case of cough and shortness of breath or discomfort, call a physician and show the packaging, label or safety data sheet.
If inhaled:	Move to fresh air. If breathing is difficult, give oxygen. If breathing is irregular or respiratory arrest occurs, provide artificial respiration. Consult a poison control centre or physician immediately.
If swallowed :	DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention immediately. Rinse mouth. Call a physician or poison control centre immediately.
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:	Remove contact lenses if present. Rinse immediately with plenty of water, also under the eyelids for at least 15 minutes. Call a physician if irritation persists.

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 or effects are so far not known.
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4.3 Indication of any immediate medical attention and special treatment needed

Treatment:	Symptomatic treatment (decontamination, vital functions). No specific antidote known.
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Section 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Small fires:	Use water spray, dry chemicals, foam or carbon dioxide.
Large fires:	Use alcohol-resistant foam or water spray. Avoid using a concentrated water jet, which may cause the fire to disperse or spread.

5.2. Special hazards arising from the substance or mixture

In the event of fire, the following substances may be released:	carbon monoxide, hydrogen chloride, carbon dioxide, nitrogen oxides, sulphur oxides, organochlorine compounds.
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5.3. Advice for firefighters

Special protective equipment:	Wear self-contained breathing apparatus and chemical protective clothing.
Other information:	Cool exposed containers with water. Collect contaminated extinguishing water separately and do not allow it to enter drains or sewers. Dispose of combustion residues and contaminated water in accordance with local regulations.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

See the protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth into drums for waste disposal. Prevent from entering sewers or waterways. In the event of entry into water or sewers, notify the appropriate authorities.

6.3 Methods and equipment for containment and cleaning up

For small amounts: Pick up with a liquid-absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). For large amounts: Dike spillage. Pump off product. Collected product must be disposed of in accordance with applicable regulations. Collect waste separately in suitable containers which can be labelled and sealed. Thoroughly clean contaminated objects and floors with water and detergents observing applicable regulations. Wear breathing apparatus during cleaning operations.

6.4 Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in sections 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. Wash hands and/or face before breaks and after work.

Protection against fire and explosion: Vapours may form ignitable mixture with air. Take measures to prevent the build-up of electrostatic charges - keep away from all sources of ignition - fire extinguishers should be kept handy.

7.2 Conditions for safe storage, including any incompatibilities

Segregate from food 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 Exposure parameters:

Exposure parameters to be monitored in the workplace

104-76-7: 2-ethylhexane-1-ol

VME 5,4 mg/m³ ; 1 ppm (OEL (EU))
non-binding

8.2. Exposure controls

Respiratory protection:	Suitable respiratory protection for higher concentrations or long-term effect: Combination filter for gases/vapours of organic, inorganic, acidic inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).
Skin protection:	Wear appropriate chemical resistant clothing depending on possible exposure. Wash with soap and water after removing protective clothing. Decontaminate protective clothing before reuse. Wear impervious protective clothing if necessary.
Hand protection :	Suitable protective gloves resistant to chemical agents (EN ISO 374-1), also with prolonged direct contact (recommended: protective index 6, corresponding to > 480 minutes of permeation time according to EN ISO 374-1): e.g. made of nitrile rubber (0.4 mm), chloroprene rubber (0,5 mm), butyl rubber (0.7 mm), etc.
Eye protection:	Follow all site specific eye protection policies. Eye/ face protection should be certified to EN 166.
Protective clothing:	Choose body protection according to the activity and type of 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).
Hygiene measures:	Do not eat, drink or smoke when using this product. Wash hands and face with soap and water before breaks. Shower at the end of the shift. Decontaminate protective clothing before re-use.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form:	Liquid
Colour:	Light yellow
Odour:	Characteristic
Olfactory threshold:	Not determined
Melting point/ freezing point (°C):	63.7
Boiling point/boiling range (°C):	Not determined
Flammability :	Does not support combustion
Upper and lower explosion limits:	Not determined
Self-ignition temperature:	444°C
Decomposition temperature:	Not determined
Flash point (°C) :	117°C
pH (10g/l at 20°C) :	5-7
Viscosity (Dynamic) :	41.04 mPa's (20°C)
Viscosity (Kinematic) :	39.97 cSt (mm2/s) (20°C)
Solubility in water :	Miscible
Solubility in other solvents:	Not determined
n-octanol/water partition coefficient:	Not determined
Vapour pressure :	Not determined
Density :	1.03 g/cm ³
Vapour density :	Not determined
Particle characteristics	
Particle size :	Not determined

9.2 Other information

9.2.1. Information with regard to physical hazard classes

Explosive :	Non-explosive
Oxidising properties:	Non-oxidizing (UN Test O.2 (oxidizing liquids)) (similar composition)

9.2.2. Other safety characteristics

No data available.

Section 10. STABILITY AND REACTIVITY

10.1 Reactivity

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

10.2. Chemical stability

This mixture is stable if stored and handled as prescribed/ indicated in Section 7.

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

See information on storage in Section 7.

10.5. Incompatible materials

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

Results based on a similar composition.

LD ₅₀ oral rat :	approx. 500 mg/kg (OECD Guideline 423)
LD ₅₀ dermal rat :	>5,000 mg/kg (OECD Guideline 402)
LC ₅₀ inhalation rat:	4.48 mg/l 4 h (OECD Guideline 403). Test performed with an aerosol containing respirable particles.
Eye irritation :	Irritation in case of contact with eyes.
Skin irritation :	Irritant in contact with skin (rabbit: Irritant - OECD Guideline 404).
Respiratory or skin sensitisation :	Assessment of sensitizing effect: Possible skin sensitization after contact.
Germ cell mutagenicity:	Experimental/ calculated data: Guinea pig maximisation test: Skin sensitising effect in animal tests (OECD Test Guideline 406). The product has not been tested. The statement has ben derived from the properties of the individual components. Mutagenicity tests give no indication of genotoxic potential.
Carcinogenicity:	The product has not been tested. The statement has ben 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
Reproductive toxicity:	EU-classification The substance was classified by the German MAK-Commission as a group 3 carcinogen (substances with known carcinogenic potential). IARC (International Agency for Research on Cancer) has classified the substance as group 2B (The agent is possibly carcinogenic to humans). The product has not been tested. The statement has ben derived from the properties of the individual components. Animal studies gave no indication of a fertility impairing effect.
Developmental toxicity :	The product has not been tested. The statement has ben derived from the properties of the individual components. Animal tests carried out at doses that were not toxic to the parental animals gave no indication of a toxic effect on embryos.
Aspiration hazard:	May damage the lungs if swallowed (aspiration hazard).

Specific target organ toxicity - single exposure (STOT-SE):
According to the information available, no specific target organ toxicity is anticipated following a single exposure (The product has not been tested. The indication is deduced from the properties of the various constituents).

Specific target organ toxicity - repeated exposure (STOT-RE):
The product has not been tested. The statement has ben derived from the properties of the individual components.

Data relating to pyraclostrobin (ISO); methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3-yloxy]methyl}phenyl}(N-methoxy)carbamate - After repeated administration the effect of local irritation is observed. The substance may cause damage to the olfactory epithelium if inhaled repeatedly.

Data relating to 2-ethylhexane-1-ol - In animal studies and after repeated absorption of large quantities, the substance caused reversible liver damage. According to our current knowledge, these results only appear in rodents and are therefore not significant for humans.

Data relating to naphthalene - The substance may cause damage to the olfactory epithelium if inhaled repeatedly.

Data relating to benzenesulphonic acid, 4-(C10-13)-sec-alkyl derivatives, calcium salts - After repeated administration the effect of local irritation is observed.

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 Article 57(f) of REACH 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

Results based on a similar composition.

Assessment of aquatic toxicity: Very toxic to aquatic organisms, causes long-term adverse effects.

Toxicity to fish: LC₅₀ (96 h) 0.036 mg/l, Oncorhynchus mykiss (OECD 203; ISO 7346; 84/449/EEC, C.1)

Aquatic invertebrates: EC₅₀ (48 h) 0.065 mg/l, Daphnia magna (Directive 92/69/EEC, C.2, static)

Aquatic plants: EC₅₀ (72 h) 14.2 mg/l (growth rate), Pseudokirchneriella

12.2 Persistence and degradability

Pyraclostrobin : Not readily biodegradable (by OECD criteria).

12.3 Bioaccumulation potential

Pyraclostrobin :
Bioconcentration factor: 379 - 507, Oncorhynchus mykiss (OECD Method 305)
Accumulation in organisms is not to be expected.

12.4 Mobility in soil

Pyraclostrobin :
Adsorption to soil: Following exposure to soil, adsorption to solid soil particles is probable. Contamination to surface water is not expected.

12.5 Results of PBT and vPvB assessments

The mixture does not meet the criteria applicable to PBT or vPvB mixtures in accordance with Annex XIII of REACH Regulation (EC) No. 1907/2006.

12.6. Endocrine disrupting properties

Product:

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

12.7. Other adverse effects

Data not available

Section 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Requires disposal to a suitable incineration plant in compliance with local regulations.

Contaminated packaging: Used packaging should be emptied as thoroughly as possible and disposed of in the same way as the product.

Section 14. TRANSPORT INFORMATION

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

14.1 UN number :

UN3082

14.2. UN proper shipping name :

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PYRACLOSTROBIN, SOLVENT NAPHTHA)

14.3. Transport hazard class(es) :

9, EHSM

14.4. Packing group :

III

14.5. Environmental hazards :

Dangerous for the environment:	Yes
Marine pollutant :	Yes
Other information :	No further information available

14.6. Special precautions for user

Tunnel code: E

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

Not evaluated.

Section 15: REGULATORY INFORMATION
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Information relating to classification and labelling under Section 3.**

Follow the instructions for use to avoid risks to human health and the environment.

The mixture does not contain any "substances of very high concern" (SVHC) published by the European Chemicals Agency (ECHA) under Article 57 of REACH <http://echa.europa.eu/web/guest/candidate-list-table>

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

The restrictions in Annex XVII of Regulation EC N° 1907/2006 do not apply to the uses of the product referred to in this SDS.

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances (EU):

Listed in the above regulations: no

ICPE nomenclature heading(s) (France): 4510

Social Security Code, Art. L 461-1 to L 461-8 (France): 9, 84

15.2 Chemical safety assessment

No data available

Section 16. OTHER INFORMATION

Full list of relevant H-phrases quoted in Sections 2 and 3:

H302	Harmful if swallowed.
H304	May be fatal if swallowed or 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.
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.

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