

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

1.1 Product Identifier

Product Name: LS PROMET (IRE)
Product Code: 081-04

Other means of identification
Unique Formula Identifier (UFI) 9JDD-7AG2-120V-K3X7

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
Skin Irrit.	Category 2	H315
Skin Sens	Category 1B	H317
Eye Dam.	Category 1	H318
STOT SE	Category 3	H335
Rep Tox.	Category 2	H361d
Aquatic Chronic	Category 2	H411

2.2 Label Elements

Labelling according to Regulation (EU) 1272/2008

Hazard Pictograms:



Signal Word:

Danger

Hazardous components:

Metconazole
N,N-dimethyldecane-1-amide C9-11 ethoxylated alcohols

Hazard Phrases:

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H411	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.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and if they can be easily removed. Continue rinsing.
P310	Immediately call a POISON CENTRE/doctor.
P308+P 313	IF exposed or concerned: 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.
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.

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.

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)
Prothioconazole	178928-70-6	605-841-2	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	10
Metconazole	125116-23-6	-	Acute Tox. 4, H302 Repr. 2, H361d Aquatic Chronic 2, H411	4.8
C9-11 ethoxylated alcohols	68439-46-3	-	Acute Tox. 4, H302 Eye Dam. 1, H318	< 50%
N,N-dimethyldecan-1-amide	14433-76-2	-	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic, H412	< 30%

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. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or Poison Control Centre immediately.
Ingestion:	If swallowed, Rinse mouth with water. If possible, give about 5-10 tablets of crushed activated charcoal and drink about a glass (1/4 Liter) of water. Do NOT induce vomiting.
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: None known.

4.3 Indication of any immediate medical attention and special treatment needed

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

Section 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

For small fires: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
For large fires: Use alcohol-resistant foam or water spray.

5.2 Special hazards arising from the substance or mixture

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion. Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

Special protective equipment for fire fighters: In the event of fire, wear self-contained breathing apparatus. Do not inhale gases from explosions and fire.

Additional information:

Endangered tanks should be cooled by a water shower. Contaminated water must be collected separately, water must not enter the sewer system.

Fire residues and contaminated extinguishing water must be disposed of in accordance with the applicable official regulations.

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, sewers or surface/ ground waters. Inform local authority plc if spillage enters sewers or watercourses.

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, diatomaceous earth).

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. Wash/ clean protective clothing and other PPE after work. The substance/product is non-combustible. Product is not explosive.

Do not remove contaminated work clothing from the workplace.

Work with the product is prohibited for pregnant and lactating women and for adolescents.

7.2 Conditions for safe storage, including any incompatibilities

Store the product in a cool, dry place in a tightly closed original container. Keep away from heat and direct sunlight. Keep out of reach of children. Keep separate from food, beverages, and feed.

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

The product does not contain any relevant quantities of substances for which limit values must be checked at the workplace.

8.2 Exposure controls

Ensure good ventilation or exhaust when working, especially in enclosed spaces.

Use local exhaust ventilation or other technical measures to maintain concentration in the air below the required exposure limits.

Individual protective measures including personal protective equipment General protective and hygiene measures:

Avoid unnecessary contact with the product. Do not eat, drink or smoke while using this product. Do not inhale gases/vapours/aerosols.

Take off the stained garment immediately and clean it thoroughly before using it again. Do not remove contaminated work clothing from the workplace.

After work and before breaks, take care of the perfect cleansing of the skin. Do not use contact lenses when preparing the application fluid.

Ensure that there is enough clean water at the place/workplace where the concentrated product is to be handled for possible first aid for eye washing.

The implementation of technical measures must always take precedence over the use of personal protective equipment. Personal protective equipment should meet the requirements specified in standards and regulations. Personal protective equipment must be certified in accordance with the relevant standards.

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

Respiratory protection: Protection of respiratory organs during preparation and filling of the application device – (filter) half mask against particles and/or gases and particles (e.g. EN 149+A1, EN 405+A1)

Skin protection:	Protective clothing for working with pesticides type C3 (CSN EN ISO 27065) or against chemicals type 4 (CSN EN 14605+A1). Have protective clothing professionally cleaned regularly.
Hand protection:	Hand protection SUITABLE protective gloves with pictogram protection against pesticides (EN ISO 18889) or chemical protection (ISO 374-1)
Eye protection:	Safety goggles or protective shield according to CSN EN 166 or newly CSN EN ISO 16321-1

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid.
Colour:	Dark yellow.
Odour:	Characteristic
Melting point (°C):	Not specified
Freezing point (°C):	Not specified
Boiling point (°C):	Not specified
Combustibility:	The substance cannot be ignited.
Flash Point:	>60 °C.
Auto. Ignition temp (°C):	386 °C.
Decomposition temp (°C):	Not specified
pH (at 20 °C):	5.2.
Kinematic viscosity:	Not specified.
Dynamic viscosity (at 20 °C):	103 mPas.
Surface tension (at 20°C):	30.4 mN/m
Solubility (water):	Capable of emulsifying.
Density:	0.9973 g/mL.
Relative vapour density:	Not specified.

9.2 Other Information

9.2.1 Information with regard to physical hazard classes

Explosives:	Not Explosive.
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9.2.2 Other safety characteristics

None.

Section 10. STABILITY AND REACTIVITY

10.1 Reactivity

No other relevant information available.

10.2 Chemical Stability

There is no decomposition with the recommended storage and handling. Shelf life: 2 years from the date of manufacture; Storage temperature +5°C to +30°C

10.3 Possibility of hazardous reactions

None known. Hazardous polymerisation does not occur. hazardous reactions if stored and handled as prescribed/indicated.

10.4 Conditions to avoid

No other relevant information available.

10.5 Incompatible material

No other relevant information available.

10.6 Hazardous decomposition products

No decomposition occurs with recommended storage and handling.

Section 11. TOXICOLOGICAL INFORMATION

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

LD₅₀ oral rat: 300 mg/kg ≤ Acute Toxicity Estimate ≥ 2000 mg/kg

Skin corrosion/irritation

Irritating to the skin.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory sensitization / skin

Skin sensitizing (OECD 429)

Germ cell mutagenicity

Based on the available data, the criteria for classification are not met.

Prothioconazole, metconazole: animal testing has shown no mutagenic effects.

Carcinogenicity

Based on the available data, the criteria for classification are not met.

Prothioconazole, metconazole: animal testing has shown no evidence of carcinogenic effects.

Reproductive toxicity

Suspected damage to the fetus in the mother's womb.

Prothioconazole, metconazole: animal testing has shown no effect on fertility.

Developmental toxicity:

Prothioconazole: Animal testing has shown no effects on development.

Metconazole: Developmental testing in rats and rabbits shows some effect on development.

Specific Target Organ Toxicity – Single Exposure

May cause respiratory irritation.

Specific Target Organ Toxicity – Repeated Exposure

Based on the available data, the criteria for classification are not met.

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 *Oncorhynchus mykiss* (96 h): 5.93 mg/L.

EC₅₀ *Daphnia magna* (48 h): 6.06 mg/L.

NOEC *Pseudokirchneriella subcapitata* (72 h): 2.93 mg/L.

E_c50 *Pseudokirchneriella subcapitata* (72 h): 9.67mg/L.

12.2 Persistence and degradability

Prothioconazole: not rapidly biodegradable; Koc: 1765 mL/g
Metconazole: not rapidly biodegradable; Koc: 1116 mL/g

12.3 Bioaccumulative potential

Prothioconazole: Does not bioaccumulate.
Metconazole: Does not bioaccumulate.

12.4 Mobility in soil

Prothioconazole: Low mobility in soil.
Metconazole: Low mobility in soil.

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 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, IMDG for the sea, and IATA for air transport.

14.1 UN Number

3082.

14.2 UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (PROTHIOCONAZOLE, METCONAZOLE).
MARINE POLLUTANT.

14.3 Transport hazard class(es)

9.

14.4 Packing group

III.

14.5 Environmental hazards

Marine Pollutant.

14.6 Special precautions for user

See sections 6 to 8 of this safety data sheet.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

Section 15. REGULATORY INFORMATION

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

E2 Hazards to the aquatic environment

National requirements:

For more information, please refer to the approval conditions on the product label. Read the enclosed instructions for use before use.

Opening the packaging and preparing the application liquid (spray slurry) should be carried out outdoors. Entry to the treated patient is possible only the next day after application.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

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.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
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.

Abbreviations and acronyms:

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

EC number: EINECS and ELINCS number (see also EINECS and ELINCS) EINECS: European Commission number.

M-factor: ATE M-factor: Acute toxicity estimation.

EC50: Effective concentration at 50%

ErC50: Inhibition of growth (algae)

LC50: Lethal concentration at 50%

NOEC: Concentration without observed effect Koc: Adsorption coefficient.

PBT: persistent, bio accumulative and toxic vPvB: very persistent and very bio accumulative.

REACH: Council (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IATA: International Air Transport Association

IMDG: Acute Tox International Sea Freight Code. 4: Acute toxicity — Category 4

Irrit skin. 2: Skin corrosion/irritation — Category 2

Eye Dam. 1: Serious Eye Damage / Eye Irritation — Category 1

Eye Irrit. 2: Serious eye damage/eye irritation — Category 2

Skin Sens. 1B: Skin sensitisation — Category 1B

Rep. 2: Reproductive toxicity — Category 2

STOT SE 3: Specific Target Organ Toxicity (Single Exposure) — Category 3

Aquatic Acute 1: Aquatic Hazards - Acute Aquatic Hazards - Category 1 Aquatic Chronic 1: Aquatic Chronic 1: Aquatic Environmental Hazards - Long-Term Aquatic Environmental Hazards - Category 1 Aquatic Chronic 2: Aquatic Environmental Hazards - Long-Term Aquatic Environmental Hazards - Category 3

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