

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

1.1 Product Identifier

Product Name: AURELIA
Product Code: 064-01

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. 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 (EC) No 1272/2008

Eye irritation	Category 2	H319
STOT SE	Category 3	H335
Acute aquatic	Category 1	H400
Aquatic Chronic	Category 1	H410

2.2 Label Elements

Classification according to Regulation (EC) No 1272/2008

Hazard components which must be listed on the label:

- Prothioconazole
- N,N-Dimethyl decanamide



Signal Word:

Warning

Hazard statements:

H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
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.
EUH208	Contains 2-[2-(1-chlorocyclopropyl)-2-hydroxy-3-phenylpropyl]-2,4-dihydro-3H-1,2,4- triazole-3-thione. May produce an allergic reaction.

Precautionary statement:

P102	Keep out of reach of children
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P352	IF ON SKIN: Wash with plenty of soap and water
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P391	Collect spillage
P501	Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for triple-rinsed empty containers which can be disposed of as non-hazardous waste.
EUH066	Repeated exposure may cause skin dryness or cracking
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).

2.3 Other Hazards

Special labelling of certain mixtures: To avoid risks to human health and environment comply with the instructions for use.

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	-	Aqua. Acute 1, H400 Aquatic Chronic 1, H410	25
N,N-Dimethyl decanamide	14433-76-2	238-405-1	Skin Irrit 2, H315 Eye Irrit 2, H319 STOT SE, H335 Aquatic Chronic 3, H412	>20

Further information

Prothioconazole	178928-70-6	M-Factor: 10 (Acute)
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Section 4. FIRST AID MEASURES

Generally, in case of doubt or if symptoms persist, always call a doctor. NEVER give anything by mouth to an unconscious person.

4.1 Description of first aid measures

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. If patient is conscious, wash out mouth with water. Seek medical advice and show the product container, label or data sheet if possible.

Skin contact: Remove contaminated clothing immediately. Wash skin 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 immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No known symptoms

4.3 Indication of any immediate medical attention and special treatment needed

Information to physician: Treat symptomatically. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. There is no specific antidote.

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 solid water stream as it may cause the fire to scatter or spread.

5.2 Special hazards arising from the substance or mixture

The product contains combustible organic components, in case of fire, dense black smoke containing hazardous combustion products will be formed. Inhalation of decomposition products may cause health problems.

5.3 Advice for Firefighters

Wear self-contained breathing apparatus. Fight fire from a safe distance and a protected location.

Further information : Do not allow run-off from firefighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

Section 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment.

6.2 Environmental precautions

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in drums for waste disposal. Prevent entry into sewers or waterways.

6.3 Methods and materials for containment and cleaning up

Clean preferably with a detergent, avoid the use of solvents.

6.4 Reference to other sections

No data is available.

Section 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

No special technical protective measures required. No special handling advice required. Avoid contact with skin and eyes. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. When using, do not eat, drink or smoke. For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Keep out of the reach of children.
Packing: Always keep in containers of same material as the original

7.3 Specific end use(s)

Refer to the label and/or leaflet.

Section 8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

Component	CAS number	Control parameters	Source
Prothioconazole	178928-70-6	1.4 mg/m ³	Supplier

8.2 Exposure controls:

Individual protection measures, such as personal protective equipment:

Use personal protective equipment that is clean and properly maintained. Store personal protective equipment in a clean place, away from the work area.

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before reuse. Ensure adequate ventilation, especially in confined areas.

Eye / face protection:

Avoid contact with eyes. Use safety eyewear designed to protect against liquid splashes. It is necessary to wear safety goggles in accordance with standard EN166.

Protection of hands:

Wear suitable protective gloves if prolonged or repeated contact with skin.

Body protection:

No special protective equipment required. Select skin and body protection based on the physical job requirements

Respiratory protection:

Wear respirator with an organic vapours and gas filter mask (protection factor 10) conforming to EN140 type A or equivalent.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical properties

Form: Liquid
Colour: Pale yellow
Odour: Aromatic

Chemical properties

pH:	5 - 7 at (1%) (20°C)
Melting point:	140.3 °C based on active
Boiling point/boiling range:	Not tested
Flash point:	Not tested
Evaporation rate:	Not tested
Flammability (solid, gas):	Non-flammable
Upper/lower flammability or explosive limits:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Vapour pressure:	Not tested
Vapour density (air):	Not applicable
Density:	0.8 – 1.2 g/cm ³ at 20 °C
Solubility(ies): Water	Dispersible
Partition coefficient: n-octanol/water:	Not tested
Auto-ignition temperature:	Not tested
Decomposition temperature:	Not tested
Viscosity:	84.46 + 3.717 mPa.s (20 °C ± 0.1°C)
Explosive properties:	Non-explosive
Oxidising properties:	Non-oxidising

9.2 Other Information

None

Section 10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions

10.2 Chemical Stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data is available

10.4 Conditions to avoid

Extremes of temperature and direct sunlight

10.5 Incompatible material

Store only in the original container

10.6 Hazardous decomposition products

No decomposition products expected under normal conditions of use.

Section 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Oral Toxicity LD50 Rat:	> 2500 mg/kg
Acute Inhalation Toxicity LC50 Rat:	> 5 mg/l, 4 h.
Acute Dermal Toxicity LD50 Rat:	> 4000 mg/kg
Acute Eye Irritation, Rabbit:	Irritating to eyes
Acute Skin Irritation, Rabbit:	Non-irritant
Sensitisation, Guinea pig:	Not sensitising

Based on test results obtained with similar product.

Section 12. ECOLOGICAL INFORMATION

12.1 Toxicity

LC ₅₀ Rainbow trout (96 h):	4.02 mg/L
EC ₅₀ Daphnia magna (48 h):	2.9 mg/L
EC ₅₀ Green algae (72 h):	12.7 mg/L
EC ₅₀ <i>Skeletonema costatum</i> (72h):	0.046 mg/l

12.2 Persistence and degradability

Biodegradability: Prothioconazole is not readily biodegradable.

Koc: Prothioconazole: Koc:1765

12.3 Bioaccumulative potential

Prothioconazole: Bioconcentration factor (BCF) 19
Does not bioaccumulate.

12.4 Mobility in soil

Mobility: Prothioconazole has slight mobility in soils.

12.5 Results of PBT and vPvB assessment

Prothioconazole: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects

No data available

Based on test results obtained with similar product.

Section 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not discharge into drains or rivers. Waste management is performed without endangering human health and without harming the environment, and in particular without risk to water, air, soil, fauna and flora.

Recycle or dispose of in accordance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste; do not dispose of waste into the environment.

Contaminated packaging: Empty container completely, rinse three times. Keep the label on the recipient.

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., (PROTHIOCONAZOLE SOLUTION).

14.3 Transport hazard class

9

14.4 Packing group

III

14.5 Environmental hazards

Dangerous for the environment

14.6 Special precautions for user

See sections 6-8 of this Safety Data Sheet

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

No data available

Section 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture in Section 3.

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

15.2 Chemical safety assessment

None

Section 16. OTHER INFORMATION

Full text hazard statements mentioned in section 2 and 3.

H315 Causes skin irritation.
H319 Causes severe eye irritation.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic organisms
H410 Very toxic to aquatic organisms with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

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