

**SAFETY DATA SHEET****AURELIA 480 SC****SDS date: 24/12/2025****Version: 1.0**

This safety data sheet was created pursuant to the requirements of: Canada Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR), as amended

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

Product Name: AURELIA 480 SC

Product Code: 173-01

PCPA Registration No.: 35764

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

Product Use: Fungicide

Restrictions on use: See product label for restrictions

Details of the supplier of the safety data sheet

Company: Life Scientific (Canada) Inc.
525-8th Avenue S.W., 43rd Floor
Eighth Avenue Place East
Calgary, Alberta T2P 1G1

Telephone: 403-498-6623

Email: info@lifescientific.comWeb: www.lifescientific.com**Emergency contact information**

In case of Emergency: 1-800-424-9300

Section 2. HAZARD IDENTIFICATION**Hazard Classification**

This material is not hazardous under the criteria of Part 2 of the Hazardous Products Regulation.

Precautionary Statements

Protect from sunlight. (P410)

Hazards Not Otherwise Classified (HNOC)

No physical hazards not otherwise classified.

No health hazards not otherwise classified.

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS	Concentration (% w/w)
Prothioconazole	178928-70-6	40.99
5-Chloro-2-methyl-4-isothiazolin-3-one & Methyl-4-isothiazolin-3-one	26172-55-4 & 2682-20-4	0.05 - 0.15
1,2-benzisothiazolin-3-one	2634-33-5	0.2 - 0.3

Section 4. FIRST AID MEASURES

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, call an ambulance, then administer artificial respiration. Keep patient warm and at rest. Call a physician or Poison Control Centre immediately.
Ingestion:	If swallowed, seek medical advice immediately and show this container or label. Rinse out mouth and give water in small sips to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Do not leave victim unattended.
Skin contact:	Take off all contaminated clothing immediately. Wash off immediately with plenty of water for 15-20 minutes. If skin irritation persists, call a physician.
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.

Most important symptoms and effects, both acute and delayed

Symptoms:	None known.
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Indication of any immediate medical attention and special treatment needed

Note to physicians:	There is no specific antidote available. Treat symptomatically.
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Section 5. FIREFIGHTING MEASURES

Extinguishing media

Suitable:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable:	High volume water jet

Special hazards arising from the substance or mixture

In the event of fire, the following may be released: Hydrogen chloride (HCl), Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO), Carbon dioxide (CO₂), Nitrogen oxides (NO_x), Sulphur dioxide (SO₂).

Advice for firefighters

Special protective equipment for fire fighters: In the event of fire, wear NIOSH approved self-contained breathing apparatus.

Further information: Avoid contact with spilled product or contaminated surfaces. Evacuate personnel to safe areas. Keep out of smoke. Fight fire from upwind position. 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.

Flash point	No data available
Auto-ignition temperature	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Explosivity	No data available

Section 6. ACCIDENTAL RELEASE MEASURES

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Personal precautions, protective equipment and emergency procedures

Isolate hazard area. Keep unauthorized people away. Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

Environmental precautions

If the product is accidentally spilled, do not allow to enter soil, waterways or wastewater canal.

Methods and materials for containment and cleaning up

Pick up with suitable absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations. Contaminated soil may have to be removed and disposed.

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**Precautions for safe handling**

Handle and open container in a manner as to prevent spillage. 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.

Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Keep away from direct sunlight. Protect from freezing.

Segregate from foods, drinks, and animal feeds.

Section 8. EXPOSURE CONTROL/PERSONAL PROTECTION**Control parameters**

Component	Control parameters	Source
Prothioconazole	1.4 mg/m ³ (SK-ABS)	OES BCS*

*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

Exposure controls

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

Respiratory protection: When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

Skin protection:	Wear long-sleeved shirt and long pants and shoes plus socks
Hand protection:	Chemical-resistant gloves (barrier laminate, butyl rubber, nitrile rubber or Viton)
Eye protection:	If eye contact is a possibility, wear tight-fitting chemical safety goggles. Follow any site-specific eye protection policies.
Protective measures:	Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid.
Colour:	white to light beige
Odour:	slight, characteristic
Melting point (°C):	No data available
Boiling point (°C):	No data available
Flammability:	No data available
Lower and upper exp. Limit:	No data available
Flash Point:	No data available
Auto. Ignition temp (°C):	No data available
Decomposition temp (°C):	No data available
pH (at 20 °C):	4-6
Viscosity:	416.17 mPa(s)
Solubility:	No data available
Vapour pressure:	No data available
Density and/or relative den.:	1.17 g/cm³ (20 °C)
Relative vapour density:	No data available

Other Information

None.

Section 10. STABILITY AND REACTIVITY

Reactivity

No information available.

Thermal decomposition

Stable under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None known. No hazardous reactions if stored and handled as prescribed/indicated.

Conditions to avoid

Extremes of temperature and direct sunlight. Freezing

Incompatible material

No incompatible materials known.

Hazardous decomposition products

No decomposition products expected under normal conditions of use.

Section 11. TOXICOLOGICAL INFORMATION

The results are based on a similar composition.

Information on likely routes of exposure

Eye	May cause mild irritation to eyes.
Skin	Harmful if absorbed through skin. May cause mild irritation to the skin.
Ingestion	Harmful if swallowed
Inhalation	Harmful if inhaled.

Information on toxicological effects

Acute Oral Toxicity

LD₅₀ (rat): > 2,000 - < 5,000 mg/kg

Acute Inhalation Toxicity

LC₅₀ (rat) > 1.6 mg/l/4h
Determined in the form of liquid aerosol.
Highest attainable concentration.
No deaths

Acute Dermal Toxicity

LD₅₀ (rat): > 5,000 mg/kg

Serious eye damage/eye irritation

Minimally irritating (rabbit)

Skin corrosion/irritation

Slight irritant effect - does not require labelling (rabbit)

Respiratory or skin sensitisation

Not a skin sensitiser (Guinea pig).
OECD Test Guideline 406, Magnusson & Kligman test

Assessment STOT Specific target organ toxicity – single exposure

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

Assessment STOT Specific target organ toxicity – repeated exposure

Prothioconazole did not cause specific target organ toxicity in experimental animal studies.

Assessment mutagenicity

Prothioconazole was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

Assessment carcinogenicity

Prothioconazole was not carcinogenic in lifetime feeding studies in rats and mice.

Assessment toxicity to reproduction

Prothioconazole caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Prothioconazole is related to parental toxicity.

Assessment developmental toxicity

Prothioconazole caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Prothioconazole are related to maternal toxicity.

Aspiration hazard

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

Further information

Only acute toxicity studies have been performed on the formulated product. The non-acute information pertains to the active ingredient(s).

Section 12. ECOLOGICAL INFORMATION

The results are based on a similar composition.

Prothioconazole

Toxicity to fish

LC₅₀ *Oncorhynchus mykiss* (96 h) 1.83 mg/l

Toxicity to aquatic invertebrates

EC₅₀ *Daphnia magna* (48 h): 1.3 mg/l

Toxicity to aquatic plants

IC₅₀ *Raphidocelis subcapitata* (72 h): 2.18 mg/l
 ErC₅₀ *Skeletonema costatum* (72 h): 0.03278 mg/l
 EC₁₀ *Skeletonema costatum* (72 h): 0.01427 mg/l

Biodegradability

Prothioconazole: Not rapidly biodegradable

Koc

Prothioconazole: 1765

Bioaccumulative potential

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

Mobility in soil

Prothioconazole: Slightly mobile in soils

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).

Environmental precautions

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Do not allow to get into surface water, drains and ground water. Apply this product as specified on the label.

Other adverse effects

None.

Section 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste disposal procedures: Dispose in accordance with all local, state/provincial and federal regulations. Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility. Follow container label instructions for disposal of wastes generated during use in compliance with the product label.

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Contaminated packaging: Triple rinse containers. Do not re-use empty containers. Completely empty container into application equipment, then dispose of empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities. If burned, stay out of smoke. Follow advice on product label and/or leaflet.

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

UN Number

3082.

UN proper shipping name

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

Transport hazard class(es)

9.

Packing group

III.

Environmental hazards

Marine Pollutant.

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

Further Information

Exempt from regulation when transported by road or rail, in accordance with TDG Regulations 1.45.1. This exemption provides that this product does not require dangerous goods shipping documentation or safety marks when transported on land by road or rail.

Section 15. REGULATORY INFORMATION**Safety, health and environmental regulation/legislation specific for the substance or mixture**

PCP Registration No. 35764

International Regulations**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable**The Stockholm Convention on Persistent Organic Pollutants** Not applicable**The Rotterdam Convention** Not applicable**International Inventories**

Contact supplier for inventory compliance status

Section 16. OTHER INFORMATION**Abbreviations and acronyms**

ACGIH	US. ACGIH Threshold Limit Values
ATE	Acute toxicity estimate
CAS No.	Chemical Abstracts Service number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
GHS	Globally harmonized system
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LC50	Lethal concentration to 50% of a test population
LD50	Lethal dose to 50% of a test population (median lethal dose)
NOEC	No observed effect concentration
N.O.S.	Not otherwise specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development
PPE	Personal protective equipment
SDS	Safety data sheet
STOT RE	Specific target organ toxicity – repeated exposure
STOT SE	Specific target organ toxicity – single exposure
TDG	Transportation of Dangerous Goods
TWA	Time weighted average
UN	United Nations
WHO	World health organization

NFPA 704 (National Fire Protection Association):

Health - 0 Flammability - 0 Instability - 0 Others - none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 0 Flammability - 0 Physical Hazard - 0 PPE – 0

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

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 Inc. 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.

AURELIA 480 SC ® - trademark pending, Life Scientific Inc.

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