

## SAFETY DATA SHEET

**AURELIA 480 SC SDS (USA)** 

SDS date: 14/02/2025

Version: 5

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

### **Product Identifier**

Product Name: AURELIA 480 SC

Product Code: 173-01

EPA Registration No.: 101986-4

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 Inc.,

300 Creek View Road,

Suite 209,

Newark, DE 19711

Telephone: +353 (0) 1 2832024
Email: info@lifescientific.com
Web: www.lifescientific.com

**Emergency contact information** 

In case of Emergency: 1-800-222-1222

Section 2. HAZARD IDENTIFICATION

### WARNING

Harmful if swallowed (H302) Very toxic to aquatic life with long lasting effects. (H400+H410)





### **HAZARD CLASSIFICATION**

Health Hazards	Categor	Physical Hazards	Categor
Acute toxicity, oral	<b>y</b> 4	None	<b>y</b> 
		Environmental Hazards	Categor

Hazardous to the aquatic environment – short-term (acute)
Hazardous to the aquatic environment – long-term (chronic)

### HAZARDS NOT REQUIRING CLASSIFICATION

None

### **PRECAUTIONARY STATEMENTS**

Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product.  $_{(P260+P264+P270)}$  IF SWALLOWED: Get medical help. Rinse mouth.  $_{(P301+P317+P330)}$ 

Avoid release to the environment not in accordance with the product label. Collect spillage. (P273+P391) Dispose of contents / container using instructions in the product label and in accordance with local / Federal regulations. (P501)



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### Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous component name	CAS	Concentration (% "/ <sub>w</sub> )
Prothioconazole	178928-70-6	41.0

Section 4. FIRST AID MEASURES

### **Description of first aid measures**

General information: When possible, have the product container or label with you when calling a poison

control center or doctor or going for treatment.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person

sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious

person

### Most important symptoms and effects, both acute and delayed

Symptoms: None known.

**NOTE TO PHYSICIAN:** 

No specific antidote. Treat symptomatically.

### 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 (HCI), Hydrogen

cyanide (hydrocyanic acid), Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen

oxides (NOx), Sulphur dioxide (SO2)

### **Advice for firefighters**

Special protective

equipment for fire fighters: Firefighters should wear NIOSH approved self-contained breathing apparatus and full

protective clothing.

Further information: Avoid contact with spilled product or contaminated surfaces. Evacuate personnel to

safe areas. Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains

or water courses.

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.



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### Section 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Isolate area and keep unnecessary and unprotected personnel from entering. Wear suitable personal protective clothing and equipment as described in Section 8 of this document.

**Environmental Precautions:** Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

**Spill Cleanup:** Dike spill using suitable absorbent or impervious materials such as sand or clay. Collect and contain contaminated absorbent and place in an appropriate container for disposal. Pump any free liquid into an appropriate closed container and decontaminate tools and equipment following cleanup. Collect washings for disposal.

### Section 7. HANDLING AND STORAGE

### **Handling:**

Avoid contact with eyes or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Precautions for safe handling.

### Storage:

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

### Section 8. EXPOSURE CONTROL/PERSONAL PROTECTION

### **Control parameters**

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

Components	CAS-No.	Control parameters	Update	Basis
Prothioconazole	178928-70-6	1.4 mg/m³ (SK-ABS)		OES BCS*

### **Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

### **Protective Clothing:**

Wear long-sleeved shirt and long pants, chemical resistant gloves made of any waterproof material, shoes plus

## socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

### Section 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

### **Appearance**

Form: Liquid.
Colour: Off-white.
Odour: Faint solvent-like.

### **Chemical properties**

pH (1% w/w): 4.58

Boiling point (°C):

Melting point (°C):

Flash Point:

Oxidising properties:

Data not available



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Density (at 20 °C): 1.171 g/ml at 20°C Viscosity (Kinematic) 355.4 @ 20°C 185.6 @ 40°C Solubility in water: Miscible.

**Other Information** 

None.

#### Section 10. STABILITY AND REACTIVITY

Reactivity

Thermal decomposition: Stable under normal conditions

Chemical Stability: Stable under recommended storage conditions.

Possibility of

No hazardous reactions when stored and handled according to prescribed instructions. hazardous reactions:

Conditions to avoid: Extremes of temperature and direct sunlight, freezing

Incompatible materials: No incompatible materials known.

Hazardous decompositions

No decomposition products expected under normal conditions of use. products:

#### Section 11. **TOXICOLOGICAL INFORMATION**

Exposure routes: Eye contact, Ingestion, Inhalation, Skin contact.

**Immediate Effects** 

Eye: Causes moderate eye irritation. May cause slight irritation. Skin: Harmful if swallowed. Ingestion: Harmful if inhaled. Inhalation:

Information on toxicological effects

LD50 (female Rat) 1,750 (estimated) Acute oral toxicity:

Acute inhalation toxicity: LC50 (male/female combined Rat) >2.4 mg/l

Exposure time: 4 h

Determined in the form of liquid aerosol. Highest attainable concentration.

No deaths

Acute dermal toxicity: LD50 (male/female combined Rat) >5,000 mg/kg

Skin corrosion/irritation: Slightly irritating to the skin – does not require labelling. (Rabbit).

Serious eye damage/eye

Minimally irritating (Rabbit). irritation:

Respiratory or

skin sensitisation: Skin: Non-sensitizing. (Mice)

# **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

### Assessment carcinogenicity



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

Not likely to be carcinogenic to humans.

**ACGIH** 

None.

NTP None.

**IARC** None.

**OSHA** 

None.

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**

Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)) 1.83 mg/l

NOAEC ((Oncorhynchus mykiss (rainbow trout)) 0.49 mg/L

The value mentioned relates to the active ingredient prothioconazole.

Toxicity to aquatic invertebrates: EC50 (Daphnia magna (Water flea)) 1.2 mg/l

Exposure time: 48 h

NOAEC (Daphnia magna (Water flea)) 0.56 mg/L

The value mentioned relates to the active ingredient prothioconazole.

ErC50 (Skeletonema costatum) 0.03278 mg/l Toxicity to aquatic plants:

Exposure time: 72 h

NOAEC (Algae) 0.042 mg/L

The value mentioned relates to the active ingredient prothioconazole.

Biodegradability: Prothioconazole:

Not rapidly biodegradable

Prothioconazole: Koc: 1765

Bioaccumulation: 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 PBT and vPvB:

very persistent and very bioaccumulative (vPvB).

Additional ecological information: No other effects to be mentioned.

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. Environmental precautions:

Do not allow to get into surface water, drains and ground water.

Apply this product as specified on the label.



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### Section 13. DISPOSAL CONSIDERATIONS

### **Pesticide Disposal:**

Wastes resulting from the use of this product must be disposed of on-site or at an approved waste disposal facility.

### **Container Disposal:**

Nonrefillable container. Do not reuse or refill this container. Refer to the product label for specific container disposal instructions

### Section 14. TRANSPORT INFORMATION

### **US-DOT**

Not Regulated

**IMDG** 

UN Number: 3082
Class: 9
Packaging group III
Marine pollutant: YES

Proper Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

NOS

(PROTHIOCONAZOLE SOLUTION)

IATA

UN Number: 3082
Class: 9
Packaging group III
Marine pollutant: YES

Proper Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(PROTHIOCONAZOLE SOLUTION)

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Freight Classification: INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN POISON

### Section 15. REGULATORY INFORMATION

### FIFRA -

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

### PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION.** Harmful if swallowed or inhaled. Avoid contact with eyes or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

# SARA Title III – Section 302 Extremely Hazardous Substances Not listed

## SARA Title III - Section 311/312 Hazard Categories

Immediate (acute)

### SARA Title III - Section 312 Threshold Planning Quantity

Not listed



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### SARA Title III - Section 313 Reportable Ingredients

Not listed

### CERCLA Reportable Quantity (RQ) -

Not listed

### **CALIFORNIA PROP 65 STATUS -**

This product does not contain any chemical known to the State of California to cause cancer or other reproductive harm.

**CANADA** – This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

### Section 16. OTHER INFORMATION

### Abbreviations and acronyms:

49CFR Code of Federal Regulations, Title 49 ACGIH US. ACGIH Threshold Limit Values

ATE Acute toxicity estimate

CAS-Nr. 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 IARC International Agency for Research on Cancer IATA International Air Transport Association IMDG International Maritime Dangerous Goods

N.O.S. Not otherwise specified

NTP US. National Toxicology Program (NTP) Report on Carcinogens OECD Organization for Economic Co-operation and Development

TDG Transportation of Dangerous Goods

TWA Time weighted average

UN United Nations

WHO World health organization

NFPA 704 (National Fire Protection Association): Health - 1 Flammability - 1 Instability - 0 Others - none

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

Health - 1 Flammability - 1 Physical Hazard - 0 PPE -

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.

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