

PROZARE™

SC

SAFETY DATA SHEET

EMERGENCY CALL: 1-800-424-9300 (CHEMTREC)

1. IDENTIFICATION

PRODUCT NAME: Prozare SC
DESCRIPTION: Broad-spectrum systemic fungicide
EPA REG. NO.: 91234-346
COMPANY IDENTIFICATION: Atticus, LLC
940 NW Cary Parkway, Suite 200
Cary, NC 27513

2. HAZARD IDENTIFICATION

WARNING

Harmful if inhaled (H332)
Suspected of causing cancer (H351)
Suspected of damaging fertility or the unborn child (H361)
Very toxic to aquatic life with long lasting effects (H400+H410)



HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Reproductive Toxicity	2	None	-
Carcinogenicity	2		
Acute toxicity, inhalation	4	Environmental Hazards	Category
		Hazardous to the aquatic environment, short-term (acute)	1
		Hazardous to the aquatic environment, long-term (chronic)	1

HAZARDS NOT REQUIRING CLASSIFICATION

PRECAUTIONARY STATEMENTS

Obtain, read and follow all safety instructions before use. Avoid breathing mist/vapors/spray. Use only outdoors or with adequate ventilation. Wear protective gloves/protecting clothing/eye protection/face protection. (P203+P261+P271+P280)

IF INHALED: Get medical help. Remove person to fresh air and keep comfortable for breathing. (P304+P340+P317)

IF exposed or concerned, get medical advice (P318)

Avoid release to the environment. (P273)

Collect spillage (P273)

Store locked up (P405)

Dispose of contents / container in accordance with local regulations. Refer to the product label for specific disposal instructions. (P501)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS #	Composition
Prothioconazole	3H-1,2,4-Triazole-3-thione, 2-[2-(1-chlorocyclopropyl)-3-(2-chlorophenyl)-2-hydroxypropyl]-1,2-dihydro-	178928-70-6	19.0%
Tebuconazole	1H-1,2,4-Triazole-1-ethanol, .alpha.-[2-(4-chlorophenyl)ethyl]-.alpha.-(1,1-dimethylethyl)-	107534-96-3	19.0%

NOTE: Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall at **1-844-685-9173** for emergency medical treatment information. For chemical emergency: spill, leak, fire, exposure or accident, call CHEMTREC day or night. Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted).

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN: No specific antidote. Treat symptomatically.

5. FIREFIGHTING MEASURES

Flash Point: Not available.

Flammable Limits (LFL-UFL): Not determined.

Fire and Explosion Hazards: Not determined.

Extinguishing Medium: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Fire Fighting Equipment: Firefighters should be equipped with NIOSH approved self-contained positive pressure breathing apparatus and full bunker gear.

Fire Fighting Instructions: Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water / firefighting water; do not allow to enter drains or waterways. Use foam or dry chemical fire extinguishing systems to prevent environmental damage from excessive water runoff. Decontaminate fire fighting gear and personal protective equipment before reuse.

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

NFPA Ratings: Health - 1 / Flammability - 1 / Reactivity - 0

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.

7. HANDLING AND STORAGE

Handling: Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

Storage: Store in a tightly closed container in a cool, dry place. Store in original container and out of reach of children, preferably in a locked storage area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Prothioconazole	178928-70-6	1.4 mg/m ³ (SK-ABS)		OES BCS*
Tebuconazole	107534-96-3	0.2 mg/m ³ (SK-ABS)		OES BCS*

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

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

Protective Clothing: Applicators and other handlers must wear long-sleeved shirt and long pants, chemical resistant gloves made of barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber ≥ 14 mils, polyethylene, polyvinyl chloride (PVC) ≥ 14 mils, Viton ≥ 14 mils, and shoes plus socks.

General: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Wash the outside of gloves before removing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	liquid, white
Odor:	odorless
Melting/freezing point:	not determined
Boiling point/Boiling range:	not determined
Flammability:	not determined
Flammability limits (upper/lower):	not determined
Flash point:	not determined

Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH:	5.5-6.5
Viscosity:	4.36 Pa.s (20 ± 0.2°C)
Solubility:	3.45 Pa.s (40 ± 0.5°C)
Partition coefficient:	not determined
Vapor pressure:	not determined
Bulk Density:	1.1401 g/mL
Relative vapor density:	not determined
Particle characteristics:	not determined

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Extremes of temperature and direct sunlight. Freezing.

CHEMICAL STABILITY: Stable under normal use and storage conditions.

INCOMPATIBILITY WITH OTHER MATERIALS: Incompatible with strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: No decomposition products expected under normal conditions of use.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Information presented below is from testing done on an identical or substantially similar product:

ORAL TOXICITY (rat LD₅₀): > 2,000 mg/kg

DERMAL TOXICITY (rat LD₅₀): >5,050 mg/kg

INHALATION TOXICITY (rat LC₅₀): >2.18 mg/L (liquid aerosol 4-hours). Highest concentration tested. No deaths

EYE IRRITATION: Minimally Irritating (Rabbit)

SKIN IRRITATION: No skin irritation (Rabbit)

SKIN SENSITIZATION: Non-sensitizing (Guinea Pig)

CARCINOGENICITY:

Not likely to be carcinogenic to humans (prothioconazole)

Group C: Possible human carcinogen (tebuconazole)

EPA: Not Listed

ACGIH: Not Listed **NTP:** Not Listed

IARC: Not Listed **OSHA:** Not Listed

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

REPRODUCTIVE TOXICITY: 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. Tebuconazole 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 Tebuconazole is related to parental toxicity.

DEVELOPMENT TOXICITY: Prothioconazole caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Prothioconazole are related to maternal toxicity. Tebuconazole caused developmental toxicity only at dose levels toxic to the dams. Tebuconazole caused an increased incidence of post implantation losses, an increased incidence of non-specific malformations.

OTHER TOXICITY: None known

12. ECOLOGICAL INFORMATION

Prothioconazole and tebuconazole are moderately toxic to freshwater invertebrates on an acute exposure basis. Prothioconazole is moderately toxic while tebuconazole is highly toxic to estuarine/marine invertebrates on an acute exposure basis. Prothioconazole is also toxic to aquatic plants.

The following information is for the active ingredients, Prothioconazole:

Rainbow Trout (96-hr LC₅₀): 1.83 mg/L; (NOAEC): 0.49 mg/L
Sheepshead Minnow (96-hr LC₅₀): 10.3 mg/L
Water Flea (48-hr EC₅₀): 1.2 mg/L; (NOAEC) 0.56 mg/L
Mysid (96-hour LC₅₀): 0.06 mg/L (prothioconazole-desthio)
Algae (96-hr EC₅₀): >0.1638 mg/L; (NOAEC): 0.042 mg/L
Duckweed (7-day EC₅₀): 0.074 mg/L; (NOAEC): .00034 mg/L
Northern Bobwhite Quail (14-day LD₅₀): >2,000 mg/kg-bw
Honeybee (48-hour LD₅₀): >200 µg/bee

The following information is for the active ingredients, Tebuconazole:

Rainbow Trout (96-hr LC₅₀): 2.27 mg/L
Fathead Minnow (18-weeks NOAEC): 0.011 mg/L
Sheepshead Minnow (96-hr LC₅₀): 5.9 mg/L
Sheepshead Minnow (27-weeks NOAEC) 0.019 mg/L
Water Flea (48-hr LC₅₀): 2.8 mg/L
Water Flea (3-weeks NOAEC): 0.12 mg/L
Mysid Shrimp (96-hour LC₅₀): 0.49 mg/L
Mysid Shrimp (4-weeks NOAEC): 0.035 mg/L
Duckweed (EC₅₀): 0.151 mg/L
Diatom (EC₅₀): 0.17 mg/L; (NOAEC): 0.05 mg/L
Bobwhite quail (LD₅₀): 1,988 mg/kg-bw
Bobwhite quail (29-weeks NOAEC): 73.5 mg/kg-diet
Honeybee (LD₅₀): 100 µg/bee
Honeybee (NOAEL): < 2.13 µg/bee/day

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Pesticide spray mixture or rinsate that cannot be used should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

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

14. TRANSPORT INFORMATION

US-DOT:

Not regulated

IMDG:

Shipped internationally by vessel: UN3082, Environmentally hazardous substance, liquid, N.O.S. (prothioconazole, tebuconazole), 9, PG III, Marine Pollutant

IATA:

Shipped internationally by air: UN3082, Environmentally hazardous substance, liquid, N.O.S. (prothioconazole, tebuconazole), 9, PG III, Marine Pollutant

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.

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. Avoid contact with skin, eyes and clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to mammals, fish, aquatic invertebrates, and freshwater/estuarine/marine aquatic plants. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

Ground Water Advisory

Prothioconazole-desthio (a degradate of prothioconazole) and tebuconazole are known to leach through soil into ground water under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground-water contamination.

Surface Water Advisory

This product may impact surface water quality due to runoff rainwater. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of prothioconazole and degradates from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

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), Delayed (Chronic)

SARA Title III – Section 312 Threshold Planning Quantity

Not listed

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.

16. OTHER INFORMATION

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

To the extent consistent with applicable law, neither Atticus, LLC nor Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ATTICUS, LLC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ATTICUS, LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SDS Version: 1.0

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