



SAFETY DATA SHEET

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

1. IDENTIFICATION

PRODUCT NAME: Pilato SC
DESCRIPTION: Liquid fungicide
EPA REG. NO.: 91234-93
COMPANY IDENTIFICATION: Atticus, LLC
 940 NW Cary Parkway, Suite 200
 Cary, NC 27513

2. HAZARD IDENTIFICATION

WARNING

Harmful if inhaled (H332)
 Causes eye irritation (H320)
 Very toxic to aquatic life with long lasting effects (H400+H410)



HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Acute Toxicity - Inhalation	4	None	-
Eye Damage / Irritation	2B	Environmental Hazards	Category
		Hazardous to the aquatic environment, acute	1
		Hazardous to the aquatic environment, chronic	1

OTHER HAZARDS NOT REQUIRING CLASSIFICATION

Do not use or store near heat or open flame. Do not mix or allow coming into contact with oxidizing agents, hazardous chemical reaction may occur.

PRECAUTIONARY STATEMENTS

Avoid breathing mist or spray. (P261)
 Use only outdoors or in a well-ventilated area in accordance with the product label. (P271)
 Wash hands and exposed skin thoroughly after handling. (P264)
 Avoid release to the environment not in accordance with the product label. (P273)
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a Poison Center or doctor if you feel unwell. (P304+P340+P312)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice / attention. (P305+P351+P338+P337+P313)
 Collect spillage. (P391)
 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
Fludioxonil	4-(2,2-difluoro-1,3-benzodioxol-4-yl)-1H-pyrrole-3-carbonitrile	131341-86-1	20.4%

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. For emergency medical assistance, call SafetyCall: 1-844-685-9173. For chemical emergency: spill, leak, fire, exposure or accident, call CHEMTREC: 1-800-424-9300.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a Poison Control Center or doctor for treatment advice.

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.

5. FIREFIGHTING MEASURES

Fire and Explosion Hazards: None known.

Extinguishing Medium: Dry chemical, foam, or CO₂ extinguishing media. If water is used to fight fire, dike and collect runoff.

Fire Fighting Equipment: Firefighters should wear full protective clothing and self-contained breathing apparatus.

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. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

Hazardous Combustion Products: During a fire, irritating and possible toxic gases may be generated by thermal decomposition or combustion.

NFPA Ratings: Health – 2 / 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: Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spill immediately, observing precautions in Section 8. Cover entire spill with absorbing material and place in a compatible disposal container. Scrub area with hard water detergent (e.g., commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposal.

7. HANDLING AND STORAGE

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

Storage: Store in original containers only. Store in a cool, dry place. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, mop and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to the label. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Protective Clothing: Mixers, loaders, applicators, and other handlers must wear long-sleeved shirt and long pants, shoes plus socks, wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with a N*, R or P filter; OR a NIOSH-approved elastomeric particulate respirator with any N*, R or P filter; OR a NIOSH-approved powered air purifying respirator with HE filters, chemical-resistant gloves made of a barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, neo-prene rubber \geq 14 mils, natural rubber \geq 14 mils, polyethylene, \geq polyvinyl chloride (PVC) \geq 14 mils, and Viton® \geq 14 mils.

General: 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	opaque white liquid
Odor:	mild sweet
Melting/freezing point:	not available
Boiling point/Boiling range:	not available
Flammability:	not available
Flammability limits (upper/lower):	not available
Flash point:	$> 230^{\circ}\text{F}$ ($> 110^{\circ}\text{C}$)
Auto-ignition temperature:	not available
Decomposition temperature:	not available
pH:	6-7 (1% dispersion)
Kinematic viscosity:	not available
Solubility:	not available
Partition coefficient:	not available
Vapor pressure:	not available
Pycnometer density:	1.09 g/cm ³ 9.10 lbs/gal @ 25°C
Relative vapor density:	not available
Particle characteristics:	not available

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: None known.

CHEMICAL STABILITY: Stable under all normal use and storage conditions.

INCOMPATIBILITY WITH OTHER MATERIALS: Oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

The following data is for a substantially similar product:

ORAL TOXICITY (rat LD₅₀): $> 5,000$ mg/kg

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

INHALATION TOXICITY (rat LC₅₀): > 2.09 mg/L (air – 4 hours)

EYE IRRITATION: Minimally Irritating (Rabbit)

SKIN IRRITATION: Practically Non-Irritating (Rabbit)

SKIN SENSITIZATION: Not a Sensitizer (Guinea Pig)

CARCINOGENICITY:

EPA: Not Listed

ACGIH: Not Listed

IARC: Not Listed

NTP: Not Listed

OSHA: Not Listed

MUTAGENIC TOXICITY: No data available.

REPRODUCTIVE TOXICITY: The active ingredient (fludioxonil) caused delayed development at doses causing maternal toxicity.

12. ECOLOGICAL INFORMATION

The following information is for the active ingredient, Fludioxonil:

AQUATIC TOXICITY

Fish (Rainbow Trout) (96-hour LC_{50}): 0.47 mg/L

Invertebrate (Water Flea) *Daphnia Magna* (48-hour EC_{50}): 0.9 mg/L

Green Algae (EC_{50}): 0.087 mg/L

AVIAN TOXICITY

Bobwhite Quail (14-day LD_{50}): > 2,000 mg/kg

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:

Containers ≤ 1.3 gal. (5 L) in strong outer packaging:

Not regulated

Containers > 1.3 gal. (5 L):

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

IATA:

Shipped by air:

UN3082, Environmentally hazardous substance, liquid, N.O.S. (fludioxonil), 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. Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

See inside label booklet for additional precautionary statements.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic invertebrates. Do not contaminate water when disposing of equipment wash waters or rinsates.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame. Do not mix or allow coming into contact with oxidizing agents, hazardous chemical reaction may occur.

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

The threshold planning quantity (TPQ) for this product treated as a mixture is 10,000 lbs. This product contains no ingredients with a TPQ of less than 10,000 lbs.

SARA Title III - Section 313 Reportable Ingredients
None

CERCLA Reportable Quantity (RQ) -
None

CALIFORNIA PROP 65 STATUS -

This product does not contain any chemicals known to the State of California to cause cancer or 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: 1.1

Effective Date: 08/12/2021



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