

RONDEL™

SAFETY DATA SHEET

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

1. IDENTIFICATION

PRODUCT NAME: Rondel
DESCRIPTION: Liquid fungicide
EPA REG. NO.: 91234-384
COMPANY IDENTIFICATION: Atticus, LLC
940 NW Cary Parkway, Suite 200
Cary, NC 27513

2. HAZARD IDENTIFICATION

WARNING

Causes serious eye irritation (H319)
Harmful if inhaled (H332)
May be harmful if swallowed (H303)
Toxic to aquatic life with long lasting effects (H411)



HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Serious eye damage/eye irritation	2A	None	-
Acute toxicity, inhalation	4	Environmental Hazards	Category
Acute toxicity, oral	5	Hazardous to the aquatic environment, long-term (chronic)	2

HAZARDS NOT REQUIRING CLASSIFICATION

None.

PRECAUTIONARY STATEMENTS

Avoid breathing mist/vapors/spray. Wash hands thoroughly after handling. Do not touch eyes. Use only outdoors or with adequate ventilation. Wear eye protection. (P261+P264+P265+P271+P280)

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 help. (P305+P351+P338+P337+P317)

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

IF SWALLOWED: Get medical help. (P301+P317)

Avoid release to the environment. (P273)

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
Flutriafol	1H-1,2,4-Triazole-1-ethanol, .alpha.-(2-fluorophenyl)-.alpha.-(4-fluorophenyl)-	76674-21-0	22.7%

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 IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 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 by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

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 the poison control center or doctor. DO NOT give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: No specific antidote. Treat symptomatically.

5. FIREFIGHTING MEASURES

Flash Point: >230°F; >110°C

Flammable Limits (LFL-UFL): Not determined.

Fire and Explosion Hazards: Not available.

Extinguishing Medium: Dry chemical or carbon dioxide for small fires, water spray or foam for large fires. Avoid heavy hose streams.

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. Remove undamaged containers from fire area if it is safe to do so. 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 firefighting gear and personal protective equipment before reuse.

Hazardous Combustion Products: The essential breakdown products are: hydrogen fluoride, nitrogen oxides (NOx), carbon monoxide, carbon dioxide and various fluorinated organic compounds.

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: 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: Do not get in eyes, or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

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

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

Protective Clothing: Applicators, mixers and loaders must wear long-sleeved shirt and long pants, shoes plus socks, chemical resistant gloves (barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, neoprene rubber \geq 14 mils, polyvinyl chloride \geq 14 mils, or Viton \geq 14 mils, and protective eyewear.

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. Remove PPE immediately after handling this product. Then wash thoroughly and put on clean clothing. Wash the outside of gloves before removing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	opaque white liquid
Odor:	moderately sweet
Melting/freezing point:	not determined
Boiling point/Boiling range:	not determined
Flammability:	not determined
Flammability limits (upper/lower):	not determined
Flash point:	$>230^{\circ}\text{F}$; $>110^{\circ}\text{C}$
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH:	5.91
Viscosity:	not determined
Solubility:	not determined
Partition coefficient:	not determined
Vapor pressure:	not determined
Pycnometer density:	1.10 g/cm ³ (9.18 lbs/gal) at 25°C
Particle characteristics:	not determined

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Heating of product will produce harmful and irritant vapors.

CHEMICAL STABILITY: Stable under normal use and storage conditions.

INCOMPATIBILITY WITH OTHER MATERIALS: Incompatible with strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: The essential breakdown products are: hydrogen fluoride, nitrogen oxides, carbon monoxide, carbon dioxide and various fluorinated organic compounds.

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): $>5,000$ mg/kg

INHALATION TOXICITY (rat LC₅₀): 2.07-5.27 mg/L (4-hours)

EYE IRRITATION: Mildly Irritating (Rabbit)

SKIN IRRITATION: No skin irritation (Rabbit)

SKIN SENSITIZATION: Not a skin sensitizer (Guinea Pig)

CARCINOGENICITY:

EPA: Not likely to be carcinogenic to humans (flutriafol)

ACGIH: A4 (kaolin)

NTP: Not Listed

IARC: Not Listed

OSHA: Not Listed

DEVELOPMENT/REPRODUCTIVE TOXICITY: There are no concerns or residual uncertainties for pre- and/or post-natal toxicity. There is evidence of increased quantitative and qualitative susceptibility in developmental and reproduction toxicity studies; however, the concern is low.

12. ECOLOGICAL INFORMATION

This formulated product is toxic to fish and aquatic invertebrates.

The following information is for the active ingredients, Flutriafol:

AQUATIC TOXICITY

Bluegill sunfish (LC₅₀): 33 mg a.i./L

Fathead minnow NOAEC): 4.8 mg a.i./L

Sheepshead minnow (LC₅₀): 72.2 mg a.i./L

Water Flea (EC₅₀): 67.1 mg a.i./L; (NOAEC): 0.31 mg a.i./L

Eastern Oyster (EC₅₀): 25 mg a.i./L

Mysid Shrimp (LC₅₀): 34.9 mg a.i./L; (NOAEC): 0.16 mg a.i./L

AVIAN TOXICITY

Mallard Duck: (LC₅₀): 4,062 mg a.i./kg-diet; (NOAEC): 39.2 mg a.i./kg-diet

BEE TOXICITY

Honeybee (LD₅₀): >50 μg a.i./bee (contact); >2 μg a.i./bee (oral)

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. (flutriafol), 9, PG III, Marine Pollutant

IATA:

Shipped internationally by air: UN3082, Environmentally hazardous substance, liquid, N.O.S. (flutriafol), 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

WARNING. Causes substantial but temporary eye injury. Harmful if swallowed. Do not get in eyes, or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

This formulated product is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

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

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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