



# RANCOR<sup>TM</sup>

## 4F

## SAFETY DATA SHEET

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

### 1. IDENTIFICATION

**PRODUCT NAME:** Rancor 4 F  
**DESCRIPTION:** A liquid herbicide  
**EPA REG. NO.:** 91234-73  
**COMPANY IDENTIFICATION:** Atticus, LLC  
5000 CentreGreen Way, Suite 100  
Cary, NC 27513

### 2. HAZARD IDENTIFICATION

#### WARNING

Causes eye irritation (H320)  
Harmful if swallowed (H302)  
Very toxic to aquatic life with long lasting effects (H400+H410)



#### HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Acute Toxicity – Oral	4	None	--
Eye damage / irritation	2B		
Environmental Hazards			Category
Hazardous to the aquatic environment, short-term			1
Hazardous to the aquatic environment, long-term			1

#### HAZARDS NOT REQUIRING CLASSIFICATION

Do not mix or allow coming in contact with oxidizing agents. Hazardous chemical reaction may occur.

#### PRECAUTIONARY STATEMENTS

Wash hands and exposed skin thoroughly after handling. (P264)  
Do not eat, drink or smoke when using this product (P270)  
Avoid release to the environment not in accordance with label instructions. Collect spillage. (P273+ P391)

**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 or attention. (P305+P351+P338+P337+P313)

**IF SWALLOWED:** Call a poison control center or doctor if you feel unwell. Rinse mouth. (P301+P312+P330)

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
Metribuzin	4-amino-6-(1,1-dimethylethyl)-3-(methylthio)-1,2,4-triazin-5(4H)-one	21087-64-9	41.0%

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 the first five minutes, then continue rinsing eye. 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.

## 5. FIREFIGHTING MEASURES

**Flash Point:** Not applicable

**Fire and Explosion Hazards:** None known.

**Extinguishing Medium:** Fog, foam, dry chemical, water spray, or carbon dioxide (CO<sub>2</sub>).

**Fire Fighting Equipment:** Firefighters should be equipped with 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.

**Hazardous Combustion Products:** Hydrogen cyanide, oxides of Sulphur, nitrogen and carbon.

**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 or soil. Contain contaminated water.

**Spill Cleanup:** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers 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, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

**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.

## 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 and other handlers must wear: long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks.

**General:** Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** opaque white liquid

**Odor:** moderately bitter

**Melting/freezing point:** not available

**Boiling point/Boiling range:** not available

**Flammability:** not applicable (aq. sol.)

**Flammability limits (upper/lower):** not available

**Flash point:** > 230°F; >110°C

**Auto-ignition temperature:** not available

**Decomposition temperature:** not available

**pH:** 6-7 (1% dispersion)

**Kinematic viscosity:** not available

**Solubility:** miscible

**Partition coefficient:** not available

**Vapor pressure:** not available

**Density:** 1.11 g/cm<sup>3</sup> @ 25°C  
9.26 lbs./gal.

**Relative vapor density:** not available

**Particle characteristics:** not available

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Elevated temperatures and moisture.

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

**INCOMPATIBILITY WITH OTHER MATERIALS:** Strong bases. Oxidizing agents. May react with aldehydes and ketones.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Incomplete combustion may lead to formation of oxides of carbon, nitrogen and sulfur, hydrogen cyanide.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Information presented below is from testing done on a similar product:**

**ORAL TOXICITY (rat LD<sub>50</sub>):** 1,078 mg/kg

**DERMAL TOXICITY (rat LD<sub>50</sub>):** > 2,000 mg/kg

**INHALATION TOXICITY (rat LC<sub>50</sub>):** > 3.01 mg/L (4-hour)

**EYE IRRITATION:** Irritating (rabbit)

**SKIN IRRITATION:** Slightly irritating (rabbit)

**SKIN SENSITIZATION:** Non-sensitizing

**CARCINOGENICITY:**

**NTP:** Not listed

**IARC:** Not listed

**EPA:** Not listed

**MUTAGENIC TOXICITY:** No data available.

**REPRODUCTIVE TOXICITY:** No data available.

**TERATOGENICITY:** No data available.



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## 12. ECOLOGICAL INFORMATION

Metribuzin is a chemical which can travel (seep or leach) through soil and can contaminate groundwater which may be used as drinking water. Metribuzin has been found in groundwater as a result of agricultural use.

**The following information is for the active ingredient, metribuzin:**

Fish (96h LC50): 64-76 mg/L

Daphnia Magna (48h EC50): 4.5 mg/L

Algae (72h EC50): 0.02 mg/L

Bird (LD50): 100-200 mg/kg

## 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. See container labeling for complete disposal instructions.

## 14. TRANSPORT INFORMATION

**US-DOT:**

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

Not regulated

**Containers > 1.3 gals. (5 L) shipped “ground only”:**

Not regulated

**Containers > 1.3 gals. (5 L) shipped all or in part by vessel:**

Shipping Description: UN3082, Environmentally hazardous substance, liquid, N.O.S. (contains Metribuzin), 9, PG III, Marine Pollutant

Emergency Guide: 171

**IMDG:**

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

Not regulated

**Containers > 1.3 gals. (5 L):**

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

**IATA:**

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

Not regulated

**Containers > 1.3 gals. (5 L):**

Shipped internationally by air: UN3082, Environmentally hazardous substance, liquid, N.O.S. (contains Metribuzin), 9, PG III

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 or absorbed through skin. Avoid contact with eyes or clothing.

See inside label booklet for additional precautionary statements.

**ENVIRONMENTAL HAZARDS**

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment washwaters.

**Groundwater Advisory:** Metribuzin is a chemical which can travel (seep or leach) through soil and can contaminate groundwater which may be used as drinking water. Metribuzin has been found in groundwater as a result of agricultural use. Users are advised not to apply metribuzin where the water table (groundwater) is close to the surface, and where the soils are very permeable, i.e., well-drained soils such as loamy sands. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater.

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

**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**

Metribuzin (CAS No. 21087-64-9) (41.0%)

**CERCLA Reportable Quantity (RQ) –**

N/A

**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.



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## 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.

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