



## SAFETY DATA SHEET

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

### 1. IDENTIFICATION

**PRODUCT NAME:** FrontRunner  
**DESCRIPTION:** Granular herbicide  
**EPA REG. NO.:** 91234-84  
**COMPANY IDENTIFICATION:** Atticus, LLC  
5000 CentreGreen Way, Suite 100  
Cary, NC 27513

### 2. HAZARD IDENTIFICATION

#### WARNING

Very toxic to aquatic life (H400)



#### HAZARD CLASSIFICATION

**Health Hazards** Category -  
None

**Physical Hazards** Category -  
None

**Environmental Hazards** Category 1  
Hazardous to the Aquatic Environment – Acute

#### HAZARDS NOT REQUIRING CLASSIFICATION

None.

#### PRECAUTIONARY STATEMENTS

Avoid release to the environment in a manner not in accordance with the product label. (P273)

Collect spillage. (P391)

Dispose of contents / container in accordance with local / Federal regulations as specified in the product label. (P501)

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS#	Composition
Cloransulam-methyl	N-(2-carbomethoxy-6-chlorophenyl)-5-ethoxy-7-fluoro(1,2,4)triazolo-[1,5-c]pyrimidine-2-sulfonamide	147150-35-4	84.0%

### 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.

**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. If irritation continues, call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. If you do not feel well, call a poison control center or doctor for treatment advice.

### 5. FIREFIGHTING MEASURES

**Flash Point:** Not applicable

**Fire and Explosion Hazards:** Not available

**Extinguishing Medium:** Water spray, foam, dry chemical, or carbon dioxide (CO<sub>2</sub>). Avoid high volume water jet (contamination risk).

**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:** Thermal decomposition may release toxic and/or irritating fumes including oxides of carbon, nitrogen and sulfur; hydrogen fluoride, and hydrogen chloride.

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



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## 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, any waterways or low areas. Do not flush to drain or soil. Contain contaminated water.

**Spill Cleanup:** Clean up spill immediately, observing precautions in Section 8. Sweep up and shovel into suitable containers for reuse or disposal. Prevent material from entering sewers, waterways, or low areas.

## 7. HANDLING AND STORAGE

**Handling:** Avoid contact with eyes, skin or clothing.

**Storage:** Store in original container. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

**Protective Clothing:** Applicators, and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, and chemical-resistant gloves.

**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:** light brown powder

**Odor:** moderately bitter

**Melting/freezing point:** not available

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

**Flammability:** not applicable

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

**Flash point:** not applicable

**Auto-ignition temperature:** not applicable

**Decomposition temperature:** not available

**pH:** 6.0-7.5

**Kinematic viscosity:** not available

**Solubility:** not available

**Partition coefficient:** not available

**Vapor pressure:** not available

**Bulk Density (tap):** 0.434 g/cm<sup>3</sup>  
27.1 lbs/ft<sup>3</sup>

**Relative vapor density:** not available

**Particle characteristics:** not available

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** None reasonably foreseeable

**CHEMICAL STABILITY:** Stable at normal temperatures and storage conditions.

**INCOMPATIBILITY WITH OTHER MATERIALS:** Strong oxidizers.

**HAZARDOUS DECOMPOSITION PRODUCTS:** No data available.

**HAZARDOUS POLYMERIZATION:** 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):** >5000 mg/kg

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

**INHALATION TOXICITY (rat LC50):** > 3.77 mg/L (4-hour)

**EYE IRRITATION:** Slight temporary irritation.

**SKIN IRRITATION:** Slight irritation with local redness possible.

**SKIN SENSITIZATION:** Animal test did not cause sensitization by skin contact.

**CARCINOGENICITY:**

**NTP:** Not listed

**IARC:** Not listed

**EPA:** Not listed

**MUTAGENIC TOXICITY:** Animal Testing did not show any mutagenic effects.

**REPRODUCTIVE TOXICITY:** No evidence of fertility or reproductive effects for the active ingredient Rimsulfuron.

**TERATOGENICITY:** Evidence suggests the substance is not a developmental toxin in animals.

**OTHER TOXICITY:** No data available.

## 12. ECOLOGICAL INFORMATION

This pesticide is toxic to aquatic plants.

The following information is for the active ingredient, cloransulam-methyl:

Rainbow Trout (96h LC<sub>50</sub>): > 86 mg/L

Daphnia Magna (48h LC<sub>50</sub>): > 34.5 mg/L

Green Algae (96h EC<sub>50</sub>): > 0.003 mg/L

Lemna Gibba (7d EC<sub>50</sub>): 0.00099 mg/L

## 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** See container labeling for complete disposal instructions.



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## 14. TRANSPORT INFORMATION

<b>UN Number:</b>	UN3077
<b>Proper Shipping Name:</b>	Environmentally hazardous substance, solid, N.O.S. (contains cloransulam-methyl)
<b>Transport Hazard Class:</b>	9
<b>Packing Group:</b>	III
<b>Hazard Zone:</b>	A
<b>Marine Pollutant:</b>	Yes <sup>1</sup>
<b>Hazardous Substance RQ:</b>	None
<b>Labels / Placards:</b>	US-DOT: Class 9 Environmentally Hazardous Substance <sup>2</sup> IMDG, IATA: Class 9 Environmentally Hazardous Substance <sup>3</sup>
<b>Emergency Guide:</b>	171 (NAERG – North American Emergency Response Guide)
<b><sup>1</sup>Marine Pollutant Note:</b>	Ground-only shipments are excluded from Marine Pollutant labeling requirements as per 49CFR§172.101 Appendix B(4). For any shipments involving all or part of the transport by vessel, the shipment must be classified as a Marine Pollutant unless a limited quantity exemption applies (see note 3 below).
<b><sup>2</sup>US-DOT Note:</b>	Not regulated for “ground only” shipments.
<b><sup>3</sup>IMDG / IATA Note:</b>	Not regulated when shipped in single or inner packaging ≤ 11 lbs. (5 kg) in strong outer packaging.

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 Eye Irritation. Avoid contact with skin, eyes, and clothing.

#### 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 or rinsate.

#### Groundwater Advisory:

Chloransulam-methyl is known to leach through soil into groundwater under certain conditions as a result of label use. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

This chemical can contaminate surface water through spray drift.

### Surface Water Advisory:

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching aquatic sediment via runoff for several weeks 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 Chloransulam-methyl from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted 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

### 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) –

Not listed

### 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: 1.0

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