

# SAFETY DATA SHEET

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



## 1. IDENTIFICATION

**PRODUCT NAME:** Mission Herbicide  
**DESCRIPTION:** A granular herbicide.  
**EPA Reg. No.:** 71512-18-88783

**COMPANY IDENTIFICATION:**  
**Summit Agro USA, LLC**  
240 Leigh Farm Road, Suite 415  
Durham, NC 27707

## 2. HAZARD IDENTIFICATION

### DANGER

May cause cancer (H350)  
May cause damage to organs through prolonged or repeated exposure. (H373)  
Very toxic to aquatic life with long lasting effects. (H410)



### HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Specific target organ toxicity, repeated exposure	2	Flammable liquids	-
Carcinogenicity	1		
		Environmental Hazards	Category
		Hazardous to the aquatic environment, acute	1
		Hazardous to the aquatic environment, chronic	1

### HAZARDS NOT REQUIRING CLASSIFICATION

None.

### PRECAUTIONARY STATEMENTS

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. (P201+P202)

Do not breath dust/mist/vapors/spray. (P260)

Wear protective gloves / protective clothing and eye protection. Refer to Section 8 for specific PPE requirements. (P280)

**IF exposed or concerned:** Get medical advice or attention if you feel unwell. (P308+P314)

Avoid release to the environment not in accordance with the product label. Collect spillage. (P273+P391)

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
Flazasulfuron	N-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-3-(trifluoromethyl)-2-pyridinesulfonamide	104040-78-0	25%
Silicon dioxide		7631-86-9	0-25%

#### 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 CHEMTREC at 1-800-424-9300 for emergency medical information.

**IF SWALLOWED:** Call a poison control center or doctor if you feel unwell. Rinse mouth out and 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.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**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.

#### 5. FIREFIGHTING MEASURES

**Flash point (SCC):** Not applicable

**Flammable Limits (LFL-UFL):** Data not available.

**Fire and Explosion Hazards:** May decompose under fire conditions emitting gases and vapors, which may be toxic and irritating to the respiratory tract.

**Means of Extinction: Small Fire:** Use foam, dry chemical, water fog, or carbon dioxide.

**Large Fire:** Use polar resistant foam or water fog. Avoid use of water jet.

**Fire Fighting Instructions:** Evacuate area and fight fire upwind a safe distance to avoid hazardous vapors and decomposition products. Use as little water as possible and use spray or fog and avoid heavy hose streams to prevent runoff. Dike and collect water used to fight fire to prevent environmental damage due to runoff. Foam or dry chemical extinguishing systems are preferred to prevent environmental damage due to runoff.

**Firefighting Equipment:** Self-contained breathing apparatus with full face piece.

**Hazardous Combustion Products:** May thermally decompose releasing toxic and irritating vapors.

**NFPA Ratings:** Health – 2 / Flammability – 0 / Reactivity – 0

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precaution:** Use protective equipment and engineering controls identified in section 8 of this document.

**Spill Cleanup:** Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, fold and roll back bags, clamp and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or 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 use.

**Storage:** Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, fold and roll back bags, clamp and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Protective Clothing:** Applicators and other handlers must wear: long-sleeved shirt and long pants, shoes plus socks, protective eyewear and waterproof gloves.

**General:** Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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

<b>Appearance:</b>	brown granules	<b>pH:</b>	5.06
<b>Odor:</b>	cinnamon-like	<b>Kinematic viscosity:</b>	Not available
<b>Melting/freezing point:</b>	150°C	<b>Solubility:</b>	soluble in water
<b>Boiling point/Boiling range:</b>	Not available	<b>Partition coefficient:</b>	Not available
<b>Flammability:</b>	None Flammable	<b>Vapor pressure:</b>	<1.0 x 10 <sup>-7</sup> torr
<b>Flammability limits (upper/lower):</b>	Not available	<b>Density:</b>	0.79 g/cm <sup>3</sup>
<b>Flash point:</b>	Not available	<b>Relative vapor density:</b>	Not available
<b>Auto-ignition temperature:</b>	Not available	<b>Particle characteristics:</b>	Not available
<b>Decomposition temperature:</b>	Not available		

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Avoid contact with heat or open flame.

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

**HAZARDOUS DECOMPOSITION PRODUCTS:** May decompose under fire conditions to release vapors or gases which are toxic and irritating to the respiratory tract.

**INCOMPATIBILITY WITH OTHER MATERIALS:** None known.

**POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE ORAL TOXICITY:

Oral LD<sub>50</sub> (rat, male): 4,694 mg/kg  
(rat, female): 4,908 mg/kg

### ACUTE DERMAL TOXICITY:

Dermal LD<sub>50</sub> (rat): > 2,000 mg/kg

### ACUTE INHALATION TOXICITY:

Inhalation LC<sub>50</sub> (rat): > 6.17 mg/L actual airborne concentration  
> 20.1 mg/L nominal (4-hour)

**EYE IRRITATION:** Non-irritating (rabbit); Any observed redness subsided within 48 – 72 hours

**SKIN IRRITATION:** Non-irritating (rabbit); Primary dermal irritation index = 0.0

**SENSITIZATION:** Not a sensitizer

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** None known.

### CARCINOGENICITY:

**ACGIH:** Not listed

**IARC:** Yes: Crystalline silica dust (Group 1 carcinogen)

**NTP:** Yes: Crystalline silica dust (known human carcinogen)

**OSHA:** Yes: Crystalline silica dust

**MUTAGENIC DATA:** Multiple genotoxicity tests with the active ingredient showed no evidence of mutagenicity.

**ADDITIONAL DATA:** Not known to cause reproductive or birth defects at normal exposure levels.

## 12. ECOLOGICAL INFORMATION

Do not contaminate water when disposing of equipment wash waters.

This chemical has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

This product may contaminate water through drift of spray in wind, or drift of soil from treated areas.

This product has a high potential for runoff for several weeks after application. Poorly drained soils and soils with shallow water tables are more prone to produce runoff that contains this product. Avoid applying this product to ditches, swales, and drainage ways. Runoff of this product would be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

**The following is for the active ingredient, Flazasulfuron:**

### AQUATIC TOXICITY

Rainbow Trout (LC<sub>50</sub>) 96-hour: 120 ppm  
Daphnia magna (EC<sub>50</sub>) 48-hour: > 106 ppm  
Green Algae (EC<sub>50</sub>) 72-hour: 5.1 ppb

### OTHER TOXICITY

Bobwhite Quail Acute (LD<sub>50</sub>): > 2,000 mg/kg  
Mallard Duck Acute (LD<sub>50</sub>): > 2,250 mg/kg  
Sub-Acute Dietary Bird (LD<sub>50</sub>): > 5,620 ppm (in diet)

## 13. DISPOSAL CONSIDERATIONS

**Do not contaminate water, food or feed by disposal.**

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Nonrefillable container, do not reuse or refill this container. Proper disposal procedures depend on the size and composition of the product container, so follow the disposal directions on the product label which are specific to the container.

## 14. TRANSPORT INFORMATION

<b>UN Number:</b>	UN3077
<b>Proper Shipping Name:</b>	Environmentally hazardous substance, solid, N.O.S. (flazasulfuron)
<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>	Flazasulfuron (CAS No. 104040-78-0): 100 lbs. (125 lbs. of this product)
<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 49CFR172.101 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 in containers < 125 lbs. Class 9 Placard not required for non-bulk packaging transported by ground within the U.S. [49 CFR 172.504(f)(9)]
<b><sup>3</sup> IMDG / IATA Note:</b>	Not regulated when shipped in single or inner packaging ≤ 11 lbs. (5 kg).

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 skin, eyes or clothing. Do not use or store near heat or open flame.

#### ENVIRONMENTAL HAZARDS

This product may contaminate water through drift of spray in wind, or drift of soil from treated areas. This product has a high potential for runoff for several weeks after application. Poorly drained soils and soils with shallow water tables are more prone to produce runoff that contains this product. Avoid applying this product to ditches, swales, and drainage ways. Runoff of this product would be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. There is potential for injury to sensitive plants irrigated with run-off water containing flazasulfuron. Apply this product only as specified on this label.

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

None


#### SARA Title III – Section 313 Reportable Ingredients

None listed

#### CERCLA –

Not Listed

#### CALIFORNIA PROP 65 STATUS –

 **WARNING:** This product can expose you to chemicals including silicon dioxide, which is known to the state of California to cause cancer. For more information go the [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## 16. OTHER INFORMATION

### REFER TO THE PRODUCT LABEL FOR TERMS AND CONDITIONS OF USE

#### Warranty Disclaimer

To the extent consistent with applicable law, all such risks shall be assumed by the buyer. Summit Agro USA LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use, subject to the inherent risks referred to above. SUMMIT AGRO USA LLC MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, SUMMIT AGRO USA LLC AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

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