



# SAFETY DATA SHEET

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

## 1. IDENTIFICATION

**PRODUCT NAME:** Sertay  
**DESCRIPTION:** Granular herbicide  
**EPA REG. NO.:** 91234-120  
**COMPANY IDENTIFICATION:** Atticus, LLC  
940 NW Cary Parkway, Suite 200  
Cary, NC 27513

## 2. HAZARD IDENTIFICATION

### WARNING

Very toxic to aquatic life with long last effects (H400+H410)

### HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
None	-	None	-
		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 to come in contact with oxidizing agents. Hazardous chemical reaction may occur.

### PRECAUTIONARY STATEMENTS

Avoid release to the environment not in accordance with the product label. Collect spillage. (P273+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
Sulfosulfuron	Imidazo[1,2-a]pyridine-3-sulfonamide, N-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-2-(ethylsulfonyl)-	141776-32-1	75%
Other Ingredients	--	N/A	25%

**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 eyes 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 eyes. Call a poison control center or physician for advice.

## 5. FIREFIGHTING MEASURES

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

**Extinguishing Medium:** Dry chemical, foam, fog or CO<sub>2</sub>

**Fire Fighting Equipment:** Firefighters should wear NIOSH approved self-contained breathing apparatus and full fire-fighting turn out gear.

**Fire Fighting Instructions:** Minimize use of water to prevent environmental contamination. Use self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

**Hazardous Combustion Products:** Carbon oxides and Sulfur oxides; Oxides of nitrogen; ammonia

**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. 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:** For small quantities: sweep, scoop, or vacuum to remove. Wash spill area with detergent and water. For large quantities: Dig up heavily contaminated soil. Refer to section 7 for types of containers. Collect in containers for disposal. Flush residues with small quantities of water. Minimize use of water to prevent environmental contamination.

## 7. HANDLING AND STORAGE

**Handling:** Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

**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:** Where engineering controls are indicated by specific use conditions or a potential for excessive exposure, use dust goggles

**Protective Clothing:** Wear long-sleeved shirt and long pants and shoes plus socks 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	light brown granules
<b>Odor:</b>	bitter
<b>Melting/freezing point:</b>	not available
<b>Boiling point/Boiling range:</b>	not available
<b>Flammability:</b>	not available
<b>Flammability limits (upper/lower):</b>	not available
<b>Flash point:</b>	not available
<b>Auto-ignition temperature:</b>	not available
<b>Decomposition temperature:</b>	not available
<b>pH:</b>	4-5 (1% disp.)
<b>Kinematic viscosity:</b>	not available
<b>Solubility:</b>	dispersible in water
<b>Partition coefficient:</b>	log Pow: <1 (sulfosulfuron)
<b>Vapor pressure:</b>	not available
<b>Relative Density:</b>	not available
<b>Relative vapor density:</b>	not available
<b>Particle characteristics:</b>	not available
<b>Bulk Density:</b>	37.4 lb/ft <sup>3</sup> (tap)

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Extremes of temperature and direct sunlight

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

**INCOMPATIBILITY WITH OTHER MATERIALS:** None known based on information supplied.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**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 LD<sub>50</sub>):** >5000 mg/kg

**DERMAL TOXICITY (rat LD<sub>50</sub>):** > 5000 mg/kg

**INHALATION TOXICITY (rat LC<sub>50</sub>):** > 2.6 mg/L (4-hr)

**EYE IRRITATION:** Slightly irritating (Rabbit)

**SKIN IRRITATION:** Non-irritating (Rabbit)

**SKIN SENSITIZATION:** Non-sensitizer (Guinea pigs)

**CARCINOGENICITY:** Urinary bladder tumors in rats and mice. Mode(s) of action not relevant to humans.

**EPA:** Not likely to be a carcinogenic to humans (sulfosulfuron)

**ACGIH:** Not Listed      **NTP:** Not Listed

**IARC:** Not Listed      **OSHA:** Not Listed

**MUTAGENIC TOXICITY:** No data available.

**TERATOGENICITY:** No data available.

## 12. ECOLOGICAL INFORMATION

This pesticide is highly toxic to non-target plants. No significant bioaccumulation is expected. This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water.

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

### AQUATIC TOXICITY

Fish (Rainbow Trout) (96-hour LC<sub>50</sub>): >97 mg/L

Daphnia magna (48-hour EC<sub>50</sub>): >144 mg/L

Green Algae (96-hour EC<sub>50</sub>): 0.0714 mg/L

Duckweed (7 days, EC<sub>50</sub>): 0.0012 mg/L

Duckweed (7 days, NOEC<sub>50</sub>): 0.0027 mg/L

### AVIAN TOXICITY

Bobwhite Quail (acute, oral LD<sub>50</sub>): >2,250 mg/kg

Bobwhite Quail (5 days, oral LD<sub>50</sub>): >5,620 mg/kg

Mallard Duck (acute, oral LD<sub>50</sub>): > 2,250 mg/kg

Mallard Duck (5 days, oral LD<sub>50</sub>): > 5,620 mg/kg

### OTHER NON-TARGET ORGANISM TOXICITY

Anthropod (Honeybee) (Contact, 48-hours LD<sub>50</sub>): >0.123 mg/L

Anthropod (Honeybee) (Oral, 48-hours LD<sub>50</sub>): >0.128 mg/L

## 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. See individual container label for pesticide disposal or handling.

## 14. TRANSPORT INFORMATION

### US-DOT:

Not regulated

### IMDG:

**Containers ≤ 11 lbs. (5 kg) in strong outer packaging:**

Not regulated

**Containers ≥ 11 lbs. (5 kg) or containers not in strong outer packaging:**

Shipped internationally by vessel: UN3077, Environmentally hazardous substance, solid, N.O.S. (contains sulfosulfuron), 9, PG III, Marine Pollutant

### IATA:

**Containers ≤ 11 lbs. (5 kg) in strong outer packaging:**

Not regulated

**Containers ≥ 11 lbs. (5 kg) or containers not in strong outer packaging:**

Shipments by air: UN3077, Environmentally hazardous substance, solid, N.O.S. (contains sulfosulfuron), 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. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

##### ENVIRONMENTAL HAZARDS

###### Ground Water Advisory

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

###### Surface Water Advisory

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly raining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for months or more 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 sulfosulfuron from runoff water and sediment. Runoff of this product will be greatly reduced by avoiding applications when rain-fall or irrigation is expected to occur within 48 hours.

##### PHYSICAL OR CHEMICAL HAZARDS

Do not mix or allow to come in 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

##### SARA Title III – Section 312 Threshold Planning Quantity

None

##### 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 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: 1.1\_US

Effective Date: 05/20/2021



Manufactured for:  
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