

SAFETY DATA SHEET



Date Issued : 1/21/2019
SDS No : 012119
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Revision No : 1

VANDAL S-MOC HERBICIDE

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: VANDAL S-MOC HERBICIDE
PRODUCT DESCRIPTION: Herbicide
ACTIVE INGREDIENT(S): Sulfentrazone; S-Metolachlor

DISTRIBUTOR

Innvictis Crop Care, LLC
 1880 Fall River Drive, Suite 100
 Loveland, CO 80538

24 HR. EMERGENCY TELEPHONE NUMBERS

24-Hour Emergency Assistance Call: 1-800-222-1222
 Chemical Emergency Call CHEMTREC: 1-800-424-9300

EPA REG. NO.: 91234-48-89391

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Acute Toxicity (Oral), Category 5
 Acute Toxicity (Inhalation), Category 4
 Skin Irritation, Category 2
 Eye Irritation, Category 2A
 Skin Sensitization, Category 1

GHS LABEL



Exclamation
mark



Environment



Health
hazard

SIGNAL WORD: WARNING

HAZARD STATEMENTS

H303: May be harmful if swallowed.
 H332: Harmful if inhaled.
 H315: Causes skin irritation.
 H319: Causes serious eye irritation.
 H317: May cause an allergic skin reaction.
 7644CAE4: May cause damage to organs through prolonged or repeated exposure.
 H351: Suspected of causing cancer.
 H410: Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

General:

P101: If medical advice is needed, have product container or label at hand.
 P102: Keep out of reach of children.
 P103: Read label before use.

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Prevention:

- P261: Avoid breathing mist, vapors or spray.
 P271: Use only outdoors or in a well-ventilated area.
 P264: Wash hands, face and other affected areas thoroughly after handling.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P272: Contaminated work clothing should not be allowed out of the workplace.

Response:

- P312: Call a POISON CENTER or doctor/physician if you feel unwell.
 P304+P341: IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
 P321: Specific treatment see Section 4, First Aid Measures, on this SDS.
 P302+P352: IF ON SKIN: Wash with plenty of soap and water.
 P332+P313: If skin irritation occurs: Get medical advice/attention.
 P362: Take off contaminated clothing and wash before reuse.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313: If eye irritation persists: Get medical advice/attention.
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
 P363: Wash contaminated clothing before reuse.

Disposal:

- P501: Dispose of contents/container to Local, State and Federal Regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Sulfentrazone	7.15 - 7.9	122836-35-5
S-Metolachlor	66.2 - 70.3	87392-12-9

4. FIRST AID MEASURES

- 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 doctor for treatment advice.
- SKIN:** 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.
- INGESTION:** Call a poison control center or doctor immediately for treatment advice. Have a 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.
- INHALATION:** 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 further treatment advice.

5. FIRE FIGHTING MEASURES

- GENERAL HAZARD:** Combustible liquid. This product will burn under fire conditions. Toxic fumes may also be emitted in a fire situation.
- EXTINGUISHING MEDIA:** Foam, dry chemical, carbon dioxide, water spray or fog.
- EXPLOSION HAZARDS:** Containers may expand and burst at elevated temperatures. Can burn in fire, releasing irritating and toxic gasses due to thermal decomposition or combustion.
- FIRE FIGHTING PROCEDURES:** Evacuate area and fight fire upwind a safe distance to avoid hazardous vapors and decomposition products. Use as little water as possible and use dry chemical, foam, or CO₂ and avoid heavy hose streams to prevent runoff. Dike and collect water used to fight fire to prevent environmental damage due to runoff. Water mist may be ineffective, but may be used to cool closed containers.
- FIRE FIGHTING EQUIPMENT:** As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

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SMALL SPILL: Pick up spilled liquid with absorbent material and sweep up for disposal. Place it and damaged unusable containers in a container suitable for chemical waste. Check local, state, and federal regulations for proper disposal and follow those regulations.

LARGE SPILL: Immediately dike around the spill area to prevent spreading. Pick up spilled material with suitable absorbent material and place in appropriate container for disposal. Scrub the contaminated area with a detergent or soap solution. Check local, state, and federal regulations for proper disposal.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Wash hands after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 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.

HANDLING: Avoid contact with eyes, skin or clothing.

STORAGE: Store product in original container only, away from other pesticides, fertilizer, food or feed. Do not use or store around the home. Avoid storage below 32°F. Product that has been frozen should be thawed and recirculated prior to its use. Store in a cool, dry place and avoid excess heat.

STORAGE TEMPERATURE: (32°F) Minimum to (120°F) Maximum

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

PERSONAL PROTECTIVE EQUIPMENT

PROTECTIVE CLOTHING: Eye protection, long sleeved shirt and long pants, shoes plus socks and chemical resistant gloves. 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.

WORK HYGIENIC PRACTICES: Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored. Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet. Wash exposed skin promptly to remove accidental splashes of contact with this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Mildly sweet

APPEARANCE: Dark liquid

COLOR: Brown

pH: ~ 4.75 to 5.25

PERCENT VOLATILE: Not Available

FLASH POINT AND METHOD: > (190 °F) Closed cup

FLAMMABLE LIMITS: Not Available

AUTOIGNITION TEMPERATURE: Not Available

VAPOR PRESSURE: Not Available

VAPOR DENSITY: Not Available

BOILING POINT: Not Available

FREEZING POINT: ~ (32 °F)

MELTING POINT: > (32 °F)

POUR POINT: > 32°C

THERMAL DECOMPOSITION: Not Available

SOLUBILITY IN WATER: Dispersible

EVAPORATION RATE: Not Available

DENSITY: ~ 9.3 lbs. / gal.

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SPECIFIC GRAVITY: ~ 1.115 g/mL

VISCOSITY #1: 55.1 cps at 25 °C

MOLECULAR WEIGHT: Not Available

OXIDIZING PROPERTIES: No components in this product are classified as oxidizers.

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

STABILITY: Stable under normal use and storage conditions.

POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Heat and open flames.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

INCOMPATIBLE MATERIALS: None known.

11. TOXICOLOGICAL INFORMATION

ACUTE

DERMAL LD₅₀: > 5000 mg/kg

ORAL LD₅₀: > 3100 mg/kg

INHALATION LC₅₀: > 2.02 mg/L (Rat)(4-Hour)

EYE EFFECTS: Causes moderate eye irritation

SKIN EFFECTS: Causes moderate skin irritation.

CARCINOGENICITY

IARC: Group 2B - suspected of causing cancer (proprietary inert)

NTP: Not Listed

Notes: EPA - Group C - Possible human carcinogen (S-Metolachlor)

REPRODUCTIVE EFFECTS: No evidence of fertility or reproductive effects for the active ingredient S-metolachlor. Some evidence of offspring toxicity in animal studies using sulfentrazone.

TERATOGENIC EFFECTS: No evidence of teratogenic effects for the active ingredient S-metolachlor. Some developmental toxicity demonstrated in animal studies using sulfentrazone.

MUTAGENICITY: No evidence of mutagenic effects for the active ingredients or other components.

GENERAL COMMENTS: May cause damage to organs (liver, hematopoietic system) through prolonged or repeated exposure. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: This pesticide is toxic to freshwater and estuarine/marine invertebrates. It is practically non-toxic to birds and highly toxic to aquatic plants.

AQUATIC TOXICITY (ACUTE): No data available for the formulated product.

13. DISPOSAL CONSIDERATIONS

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

EMPTY CONTAINER: Do not reuse product containers. Triple rinse (or equivalent), then offer for recycling at an ACRC site (go to <http://www.acrecycle.org/> for locations) or by reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by local, state, and federal regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not regulated for ground transportation by US D.O.T.

15. REGULATORY INFORMATION**UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

311/312 HAZARD CATEGORIES: 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.

FIRE: Yes **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

313 REPORTABLE INGREDIENTS: Not Listed

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: Not Listed

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA RQ: Not Listed

CALIFORNIA PROPOSITION 65: Not Listed

GENERAL COMMENTS: INFORMATION FROM EPA LABEL

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION. Harmful if swallowed. Avoid contact with skin, eyes or clothing. Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. See inside label booklet for additional precautionary statements.

16. OTHER INFORMATION

REASON FOR ISSUE: New Product

REVISION SUMMARY: This SDS replaces the 1/21/2019 SDS. Revised: **Section 1:** EPA REG. NO..

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