

SAFETY DATA SHEET



Date Issued : 1/7/2020
SDS No : V S-MOC XRT

VANDAL S-MOC XRT

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: VANDAL S-MOC XRT

PRODUCT DESCRIPTION: Herbicide

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.: 89168-89-89391

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Acute Toxicity (Dermal), Category 5
Acute Toxicity (Oral), Category 5
Acute Toxicity (Inhalation), Category 5
Skin Irritation, Category 2
Eye Irritation, Category 2A
Skin Sensitization, Non-sensitizing.

GHS LABEL



Exclamation
mark

SIGNAL WORD: WARNING

HAZARD STATEMENTS

H303: May be harmful if swallowed.
H313: May be harmful in contact with skin.
H333: May be harmful if inhaled.
H315: Causes skin irritation.
H319: Causes serious eye irritation.

PRECAUTIONARY STATEMENTS

Prevention:

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.
P264: Wash hands, face and other affected areas thoroughly after handling.

Response:

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P280: Wear protective gloves/protective clothing/eye protection/face protection.

P304+P312: IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P321: Specific treatment see Section 4, First Aid Measures, on this SDS.

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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
S-Metolachlor	50.67 - 53.81	87392-12-9
Sulfentrazone	5.73 - 6.03	122836-35-5
Other Ingredients	40.24 - 43.22	Mixture

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: Immediately wash skin with plenty of water while removing contaminated clothing. Always wash clothing according to manufacturer's instructions prior to reuse.

INGESTION: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

INHALATION: Move individual to fresh air, if symptoms persist call a physician. If individual is not breathing, call 911 or an ambulance, then give artificial respiration.

NOTES TO PHYSICIAN: Contains petroleum distillates. Vomiting may cause aspiration pneumonia. Have the product container label with you when calling a poison control center or doctor, or going for treatment.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Combustible

FIRE FIGHTING PROCEDURES: Evacuate area and fight fire upwind a safe distance to avoid hazardous vapors and decomposition products. Fire exposed containers can build up pressure and should be kept cool with water spray if possible. Dike and collect water used to fight fire to prevent environmental damage due to runoff. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

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

SMALL SPILL: Immediately pick up spilled liquid with absorbent material and sweep up for disposal. Place it and damaged unusable containers in a landfill appropriate for non hazardous chemical waste. Wash the contaminated area with detergent and soap solution. Check local, state, and federal regulations for proper disposal.

LARGE SPILL: 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. Place it and unusable containers in a landfill appropriate for non hazardous chemical waste. Check local, state, and federal regulations for proper disposal.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: This pesticide is toxic to fish and marine/estuarine invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to terrestrial and aquatic plants in neighboring areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

7. HANDLING AND STORAGE

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HANDLING: Avoid breathing vapors or spray mist. Wash hands after handling, 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.

STORAGE: Do not store below temperature of 32°F or above 100°F. Store in original container in a well-ventilated area separately from fertilizer, feed, and foodstuffs. Keep container tightly closed when not in use. Reduce stacking height where local conditions can affect package strength.

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), may be reduced or modified as specified in the WPS. Mixers and loaders supporting aerial applications are required to use closed systems. The closed system must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)]. When using the closed system, the mixers' and loaders' PPE requirements may be reduced or modified as specified in the WPS.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Do not get this material in your eyes. Eye contact can be avoided by wearing protective eyewear.

SKIN: All mixers, loaders, applicators and other handlers must wear long-sleeved shirt and long pants, shoes plus socks and chemical-resistant gloves. Some of the materials that are chemical-resistant to this product are barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride and Viton.

PROTECTIVE 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

PHYSICAL STATE: Liquid

ODOR: Characteristic

COLOR: Clear colorless to amber

pH: 4.8 to 5.8

FLASH POINT AND METHOD: ~ (187°F) Closed cup

VAPOR PRESSURE: Not Available

VAPOR DENSITY: Not Available

BOILING POINT: Not Available

FREEZING POINT: (32°F)

MELTING POINT: > (32°F)

POUR POINT: Not Available

THERMAL DECOMPOSITION: Not Available

SOLUBILITY IN WATER: Emulsifies

EVAPORATION RATE: Not Available

DENSITY: ~ 9.5 lb/gal

SPECIFIC GRAVITY: ~ 1.14 g/mL

VISCOSITY: Not Available

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.

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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:** > 2000 mg/kg**ORAL LD₅₀:** > 2000 mg/kg**INHALATION LC₅₀:** > 2.10 mg/L**CARCINOGENICITY****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 data available. Contact Env. Dept.**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:** < 119 Gallons - Not Regulated By D.O.T.

> 119 Gallons: NA1993 Combustible Liquid, N.O.S. (Petroleum Distillates) 3, III

15. REGULATORY INFORMATION**UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****FIRE:** Yes **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes**313 REPORTABLE INGREDIENTS:** Not Listed**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)****CERCLA RQ:** Not Listed**CALIFORNIA PROPOSITION 65:** Not Listed**GENERAL COMMENTS: PRECAUTIONARY STATEMENTS****HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. 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.

16. OTHER INFORMATION

REASON FOR ISSUE: New Product

PREPARED BY: Lighthouse Product Services LLC

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