

SAFETY DATA SHEET



Date Issued : 3/10/2016
SDS No : VANDAL IMI
Date Revised : 3/2/2018
Revision No : 3

VANDAL IMI

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: VANDAL IMI
CHEMICAL FAMILY: Herbicides

DISTRIBUTOR

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

EPA REG. NO.: 89168-49-89391

24 HR. EMERGENCY TELEPHONE NUMBERS

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

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Acute Toxicity (Oral), Category 5
 Acute Toxicity (Inhalation), Category 4
 Skin Irritation, Category 3
 Eye Irritation, Category 2B

Environmental:

Acute Hazards to the Aquatic Environment, Category 3
 Chronic Hazards to the Aquatic Environment, Category 3

Physical:

Flammable Liquids, Category 4

GHS LABEL



Exclamation
 mark

SIGNAL WORD: WARNING

HAZARD STATEMENTS

H303: May be harmful if swallowed.
 H316: Causes mild skin irritation.
 H320: Causes eye irritation.
 H332: Harmful if inhaled.
 H402: Harmful to aquatic life.
 H412: Harmful to aquatic life with long lasting effects.
 H227: Combustible liquid.

PRECAUTIONARY STATEMENTS

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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.

Prevention:

- P261: Avoid breathing mist, vapors or spray.
 P264: Wash hands, face and other affected areas thoroughly after handling.
 P271: Use only outdoors or in a well-ventilated area.
 P273: Avoid release to the environment.
 P210: Keep away from heat, sparks, flames, and hot surfaces. – No smoking.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

- P312: Call a POISON CENTER or doctor/physician if you feel unwell.
 P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
 P332+P313: If skin irritation occurs: Get medical advice/attention.
 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.
 P370+P378: In case of fire: Use Dry Chemical, CO₂, or regular foam for extinction.

Storage:

- P403+P235: Store in a well-ventilated place. Keep cool.

Disposal:

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

SENSITIZATION: Not a skin sensitizer.

COMMENTS: Read all precautions of products being handled and follow the most restrictive language for all products to provide the safest work environment.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | Wt.% | CAS |
|-------------------|-------|-------------|
| Sulfentrazone | 33.33 | 122836-35-5 |
| Imazethapyr | 6.67 | 81335-77-5 |
| Other Ingredients | 60 | 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: 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: 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 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.

NOTES TO PHYSICIAN: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

ADDITIONAL INFORMATION: Have the product container or label with you when calling a poison control center or doctor, or going in for treatment. For emergency medical assistance call **NPCC 1-800-222-1222** or call **CHEMTREC 1-800-424-9300**.

5. FIRE FIGHTING MEASURES

GENERAL HAZARD: Moderately Combustible Liquid. Can form explosive mixtures at temperatures at or above the flashpoint.

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Can burn in fire, releasing irritating and toxic gases due to thermal decomposition or combustion.

EXTINGUISHING MEDIA: Dry chemical, foam, CO₂

HAZARDOUS COMBUSTION PRODUCTS: Normal combustion forms carbon dioxide, water vapor and may produce oxides of carbon, nitrogen and phosphorous.

EXPLOSION HAZARDS: Moderately Combustible Liquid. Can form explosive mixtures at temperatures at or above the flashpoint. Can burn in fire, releasing irritating and toxic gases 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. Fire exposed containers can build up pressure and should be kept cool with water spray if possible. Explosive vapor could form from ruptured containers. 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: Immediately dike around the spill area to prevent spreading. Pick up spilled material with suitable absorbent material and place in appropriate container for disposal. 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: Do not contaminate any body of water.

LAND SPILL: Avoid runoff onto any adjacent land.

SPECIAL PROTECTIVE EQUIPMENT: Always wear proper protective equipment when handling this product.

7. HANDLING AND STORAGE

HANDLING: Wash hands after handling, before eating, drinking, chewing gum, using tobacco, or using the toilet. Avoid contact with eyes and contact with skin. 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: Store product in original container only, away from other pesticides, fertilizer, food or feed. Store in a cool, dry place and avoid excess heat. Do not store below 32°F.

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

EYES AND FACE: Wear chemical goggles or shielded safety glasses (ANSI Z87.1 or approved equivalent) when handling and mixing product. Contact lenses should not be worn when working with chemicals.

SKIN: Wear chemical resistant gloves such as Viton or barrier laminate, Coveralls over long-sleeved shirt, long pants and chemical resistant footwear plus socks. Chemical resistant headgear for overhead exposure. When exposed to product concentrate, wear a chemical resistant apron. Always refer to the label of the pesticide(s) in the tank mix and follow the most restrictive requirements.

RESPIRATORY: Proper ventilation is required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Wear a NIOSH/MSHA approved dust mask or filter when vapors are expected to be generated above the permissible limit.

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.

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OTHER USE PRECAUTIONS: Avoid contact with skin, eyes, and clothing. Avoid breathing vapors. Wash thoroughly after handling product. Eye wash fountains and drench showers should be located within 100 feet or a 10 second walk from the work area per ANSI Z358.1-1990

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Faint alcohol
APPEARANCE: Liquid
COLOR: Off-white
pH: 3.36
PERCENT VOLATILE: Not Established
FLASH POINT AND METHOD: (170 °F)
FLAMMABLE LIMITS: Not Established
AUTOIGNITION TEMPERATURE: Not Established
VAPOR PRESSURE: Not Established
VAPOR DENSITY: Not Established
BOILING POINT: Not Established
FREEZING POINT: Not Established
MELTING POINT: Not Established
POUR POINT: Not Established
THERMAL DECOMPOSITION: Not Established
SOLUBILITY IN WATER: Dispersible
EVAPORATION RATE: Not Established
DENSITY: 10.0 lbs/gal. at (70°F)
SPECIFIC GRAVITY: 1.2 g/mL
VISCOSITY: Not Established
MOLECULAR WEIGHT: 387.19 (Sulfentrazone) 289.3 (Imazethapyr)

10. STABILITY AND REACTIVITY

STABLE: Yes
HAZARDOUS POLYMERIZATION: No
POLYMERIZATION: Will not occur.
CONDITIONS TO AVOID: Excessive heat and open flames.
INCOMPATIBLE MATERIALS: Strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

ACUTE

DERMAL LD₅₀: > 5000 mg/kg

ORAL LD₅₀: 5000 mg/kg

INHALATION LC₅₀: > 2.09 mg/L

EYE EFFECTS: Slightly Irritating

SKIN EFFECTS: Slightly Irritating

CARCINOGENICITY

Notes: Not listed in OSHA, NTP, IARC or ACGIH

SENSITIZATION: Not a contact sensitizer

COMMENTS: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

12. ECOLOGICAL INFORMATION**ENVIRONMENTAL DATA:****Environmental Hazards**

This pesticide is toxic to 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.

Groundwater Advisory

This chemical is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Do not use on coarse soils classified as sand, which have less than 1% organic matter.

Surface Water Advisory

Sulfentrazone can contaminate surface water through spray drift. Under some conditions, Sulfentrazone may also have a high potential for runoff into surface water (primarily via dissolution in runoff water) for several to many months post application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water areas not separated from adjacent surface waters with vegetated filter strips, and areas overlying tile drainage systems that drain to surface waters.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: 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 by DOT

AIR (ICAO/IATA)**SHIPPING NAME:**

Environmentally hazardous substance, Liquid, N.O.S., UN 3082, Class 9, PG III, ERG 171 (Sulfentrazone)

UN/NA NUMBER: 3082

PRIMARY HAZARD CLASS/DIVISION: 9

PACKING GROUP: III

ERG: 171

VESSEL (IMO/IMDG)**SHIPPING NAME:**

Environmentally hazardous substance, Liquid, N.O.S., UN 3082, Class 9, PG III, ERG 171 (Sulfentrazone)

UN/NA NUMBER: 3082

PRIMARY HAZARD CLASS/DIVISION: 9

PACKING GROUP: III

MARINE POLLUTANT #1: Sulfentrazone

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

311/312 HAZARD CATEGORIES: Acute

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

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: Exempt from TSCA, subject to FIFRA.

CALIFORNIA PROPOSITION 65: Not Listed

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FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT):**Labeling Information:**

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. Following is the hazard information as required on the pesticide label:

PRECAUTIONARY STATEMENTS**Hazards to Humans and Domestic Animals**

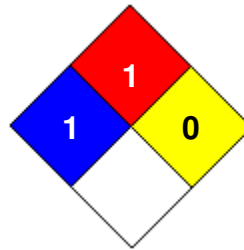
Caution

Causes moderate eye irritation. Harmful if inhaled, swallowed, or absorbed through skin. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes or clothing.

16. OTHER INFORMATION

REASON FOR ISSUE: New Revision

REVISION SUMMARY: This SDS replaces the 1/10/2018 SDS. Revised: **Section 14:** AIR (ICAO/IATA) (PRIMARY HAZARD CLASS/DIVISION, PACKING GROUP, UN/NA NUMBER, ERG), VESSEL (IMO/IMDG) (MARINE POLLUTANT #1, PRIMARY HAZARD CLASS/DIVISION, PACKING GROUP, UN/NA NUMBER).

NFPA CODES**GENERAL STATEMENTS: DISCLAIMER AND LIMITATION OF LIABILITY**

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