



Safety Data Sheet

Report
Date 23-Sep-16

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1. Identification

Product Name : ANTARES Herbicide
Synonyms : None
Product Use : Sulfentrazone Herbicide
Manufacturer/Supplier : Helena Chemical Company
Address : 225 Schilling Blvd. Collierville, TN 38017
General Information : 901-761-0050
Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification



Signal Word : Warning
Skin Irritation : Not classified as hazardous under 29 CFR 1910.1200 (2012)
Eye Irritation : Causes eye irritation
Acute Toxicity Oral : May be harmful if swallowed
Acute Toxicity Dermal : May be harmful in contact with skin

Hazard Categories : Oral/Dermal/Inhalation Toxicity-5/5/4; Eye Irritation-2; Aquatic Toxicity-2

Hazard Statement : May be harmful if swallowed
May be harmful in contact with skin
Harmful if inhaled
Causes eye irritation
Toxic to aquatic life

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Sulfentrazone	122836-35-5	39.6
Nonhazardous ingredients	Proprietary	60.4

4. First Aid Measures

Eye : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, call a doctor or poison control center.

Skin : Wash with plenty of water. Call a poison control center or doctor if you feel unwell. Immediately take off all contaminated clothing and launder before reuse.

Inhalation : Remove person to fresh air and keep comfortable for breathing. Call a doctor or poison control center if you feel unwell.

Ingestion : 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 by a poison control center or doctor. Do not give anything by mouth if unconscious.

Indication of Immediate Medical Attention and Special Treatment Needed : Sulfentrazone is expected to have low oral/dermal toxicity, and moderate inhalation toxicity. May be slightly irritating to the skin and moderately irritating to the eyes. Remove from exposure and provide symptomatic and supportive care.

5. Fire Fighting Measures



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- Extinguishing Media** : Use foam, dry chemical, carbon dioxide or soft-stream water fog only if necessary. Use as little water as possible and use spray or fog and avoid heavy hose streams to prevent runoff.
- Specific Hazards Arising from the Chemical** : Emits hydrogen chloride, hydrogen fluoride, nitrogen oxides under fire conditions.
- Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective clothing. Evacuate area and fight fire upwind a safe distance to avoid hazardous vapors and decomposition products. Dike and collect water used to fight fire to prevent environmental damage.

6. Accidental Release Measures

- Personal Precautions** : Isolate the hazard area and keep unnecessary and unprotected personnel from entering.
- Protective Equipment** : Splashproof goggles or face shield, chemical-resistant gloves, long-sleeved shirt and long pants, shoes plus socks. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.
- Emergency Procedures** : Keep the spill out of all sewers and open bodies of water.
- Methods and Materials for Containment and Cleanup** : Dike and contain the spill with inert material, such as sand, earth, etc. Transfer liquid and solid diking material to separate containers for disposal.

7. Handling and Storage

- Precautions for Safe Handling** : Avoid breathing vapor or spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.
- Conditions for Safe 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.

8. Exposure Controls / Personal Protection

- TLV/PEL** : No information found
- Appropriate Engineering Controls** : General and/or local exhaust should be sufficient.
- Personal Protective Equipment** : Splashproof goggles or face shield, chemical-resistant gloves, long-sleeved shirt and long pants, shoes plus socks. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

- Odor/Appearance** : Opaque off-white liquid, with mild odor.
- Flash Point, °F** : 220 Degrees F.
- Boiling Point, °F** : No information found
- Melting Point(Freezing point), °C** : No information found
- Vapor Pressure, mm Hg @ 20 °C** : No information found
- Vapor Density** : No information found
- Solubility in Water** : Disperses
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 1.198
- Evaporation Rate(Butyl Acetate = 1)** : No information found
- Octanol/Water Partition Coefficient** : No information found
- pH** : 4.0 to 4.5



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Flammable Limits (approximate volume % in air) : Not determined
Auto-ignition Temperature : No information found
Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity : Not reactive
Chemical Stability : Stable
Hazardous Decomposition Products : Carbon monoxide, carbon dioxide, hydrogen chloride, hydrogen fluoride and oxides of nitrogen.
Hazardous Polymerization : Will not occur
Conditions to Avoid : High heat or open flame
Incompatible Materials : Oxidizing agents

11. Toxicological Information

Acute Toxicity (Oral LD50) : 2,084 mg/kg (rat). May be harmful if swallowed.
Acute Toxicity (Dermal LD50) : >2,000 mg/kg (rat). May be harmful in contact with skin.
Acute Toxicity Inhalation LC50 : >2.72 mg/L/4-hour (rat). Harmful if inhaled.
Likely Routes of Exposure : Skin, eyes, ingestion
Skin Irritation : Not classified as hazardous under 29 CFR 1910.1200 (2012).
Eye Irritation : Causes eye irritation.
Skin Sensitization : Not a contact sensitizer.
Carcinogenic : Not listed by IARC, NTP or OSHA.
Chronic Effects : None currently known
Other Hazards : None currently known

12. Ecological Information

Ecotoxicity : This pesticide is toxic to marine/estuarine invertebrates. Drift and runoff may be hazardous to terrestrial and aquatic plants.
Persistence and Degradability : No information found
Bioaccumulative Potential : No information found
Mobility in Soil : This chemical is known to leach through soil into groundwater.
Other Adverse Effects : Do not contaminate water when disposing of equipment wash waters.

13. Disposal Considerations

Waste Disposal Method : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

14. Transport Information

UN Proper Shipping Name : Not regulated by DOT.
Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None
Environmental Hazards : May be a Marine Pollutant under IATA (air) and IMDG (vessel). Not listed as a Marine Pollutant on Appendix B to 49 CFR 172.101.
Transport in Bulk : No information found



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Special Precautions for : No information found

Transportation

Freight Classification : Pesticides, NOI, Herbicides, Other than Poison (NMFC Item 155050, Sub 11, Class 70)

15. Regulatory Information

National Fire Protection :
Association Rating

Health: 1 Fire: 1 Reactivity: 0
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard :
Classification (Yes/No)

Immediate(Acute) Health: Y
Delayed (Chronic) Health: Y
Sudden Release of N
Pressure:
Fire: N
Reactive: N

FIFRA Information : This Chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling 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:

EPA Registration Number : 82534-5-5905

FIFRA Signal Word : Caution

FIFRA Label Statement : Keep out of reach of children.

FIFRA Label Statement : Causes moderate eye irritation.

FIFRA Label Statement : Harmful if inhaled, swallowed or absorbed through skin.

FIFRA Label Statement : Avoid breathing vapor or spray mist.

FIFRA Label Statement : Avoid contact with skin, eyes or clothing.

FIFRA Label Statement : No additional label statements.

FIFRA Label Statement : No additional label statements.

16. Other Information

Data of Preparation/Revision : 23-September-2016