



Bonide Sedge Ender Ready to Use

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : Bonide Sedge Ender Ready to Use
Product code : 27933544

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Herbicide

1.3. Details of the supplier of the safety data sheet

Bonide Products, Inc.
6301 Sutliff Road
Oriskany, NY 13424
T (315) 736-8231
www.bonide.com

1.4. Emergency telephone number

Emergency number : CHEMTREC - 1 (800) 424-9300 and/or 1 (703) 527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Acute Toxicity – Inhalation (Dusts/mists) Category 4

2.2. Label elements

GHS-US labeling

No labeling applicable

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H312 – Harmful in contact with skin
H302 – Harmful if swallowed
H333 – May be harmful if inhaled

Precautionary statements (GHS-US) : P280 - Wear protective clothing, protective gloves, face protection, eye protection
P261 - Avoid breathing dust, spray, vapors, mist, fume
P271 – Use only outdoors or in well-ventilated area
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P312 – Call a POISON CENTER or doctor if you feel unwell
P363 – Wash contaminated clothing before reuse
P304 + P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P405 – Store locked up

2.3. Other hazards

May be harmful in contact with skin

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

Mixture

Name	Product identifier	%
Sulfentrazone	(CAS No) 122836-35-5	<0.1

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Move to fresh air. If person is not breathing, call 911 (within the U.S. and Canada) or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
First-aid measures after skin contact	: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.
First-aid measures after eye contact	: Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.
First-aid measures after ingestion	: Clean mouth with water and afterwards drink plenty of water. Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries	: None known.
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4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
Hazardous Combustion Products	: Carbon oxides (COx), Nitrogen oxides (NOx), Sulfur oxides, Hydrogen chloride, Hydrogen fluoride.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: Isolate and post spill area. Remove all sources of ignition. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8.
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6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Dike to prevent runoff. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean and neutralize spill area, tools and equipment by washing with bleach water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.
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6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Handle in accordance with good industrial hygiene and safety practice. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep from freezing. Keep at temperatures above 0°C. Keep out of reach of children and animals. Keep/store only in original container. Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other chemicals. Keep away from heat.

Incompatible products : None known

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : For dust, splash, mist or spray exposure, wear chemical protective goggles.

Respiratory protection : For dust, splash, mist or spray exposures wear a filtering mask.

Other information : When using, do not eat, drink or smoke.

Skin Protection : Wear suitable protective clothing. Protective shoes or boots.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Liquid

Color : Amber, Light tan

Odor : Ammoniacal, Mild

Odor threshold : No data available

pH : 6.73

Relative evaporation rate (butyl acetate=1) : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : No data available

Flash point : > 98.9 °C / > 210 °F

Self ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapor pressure : No data available

Relative vapor density at 20 °C : No data available

Relative density : No data available

Density : 1.002 g/ml (5.35 lb/gal) @19°C

Solubility : No data available

Log Pow : No data available

Log Kow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Explosive limits : No data available

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9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

None Known.

10.6. Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO₂), Nitrogen oxides (NO_x), Sulfur oxides, Hydrogen chloride, Hydrogen fluoride.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Product Information

LD50 Oral 2855 mg/kg (rat)

LD50 Dermal > 2000 mg/kg (rat)

LC50 Inhalation > 4.13 mg/L (rat) (4-hr)

Serious eye damage/eye irritation Non-irritating.

Skin corrosion/irritation Non-irritating.

Sensitization Non-sensitizing

Information on toxicological effects

Symptoms

Signs of toxicity in laboratory animals given sulfentrazone included clonic convulsions, ataxia, hypersensitivity to touch, chromorhinorrhea, abdominogenital staining, decreased locomotion, lacrimation, nasal discharge, and squinting eyes.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic toxicity

Sulfentrazone: Prolonged exposure cause decreased hemoglobin content and hematocrit, and increased spleen weight and splenic extramedullary hematopoiesis at high doses in animal studies.

Mutagenicity

Sulfentrazone: Not genotoxic in animal studies

Carcinogenicity

Sulfentrazone: No evidence of carcinogenicity from animal studies.

Neurological effects

Sulfentrazone: Clinical signs of neurotoxicity in laboratory animals was observed at high dose levels

Reproductive toxicity

Sulfentrazone: No toxicity to reproduction in animal studies.

Developmental toxicity

Sulfentrazone: Fetal weight decreased; delayed skeletal ossification observed at maternally non-toxic doses are reversible effects and a dose-response is established; malformations observed in fetuses at maternally toxic doses and consistent with the mode of action for protoporphyrongen oxidase inhibitors.

STOT - single exposure

Not classified.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure. See listed target organs below.

Target organ effects

Hematopoietic system

Neurological effects

Sulfentrazone: Clinical signs of neurotoxicity in laboratory animals was observed at high dose levels

Aspiration hazard

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Sulfentrazone (122836-35-5)				
Active Ingredient(s)	Duration	Species	Value	Units
Sulfentrazone	72 h EC50	Algae	32.8	mg/L
	48 h EC50	Crustacea	60.4	mg/L
	96 h LC50	Fish	94	mg/L
	21 d NOEC	Fish	5.9	mg/L
	21 d NOEC	Curstacea	0.51	mg/L

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12.2. Persistence and degradability

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Persistence and degradability	Persistent, Does not readily hydrolyze.
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12.3. Bioaccumulative potential

Sulfentrazone (122836-35-5)

	The substance does not have a potential for bioconcentration.
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12.4. Mobility in soil

Sulfentrazone (122836-35-5)

Mobility in soil	Mobile, Has potential to reach ground water.
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12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance. Proper personal protective equipment, as described in Sections 7 and 8, must be worn while handling materials for waste disposal.

Ecology - waste materials : Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions.

SECTION 14: Transport information

DOT This material is not a hazardous material as defined by U.S. Department of Transportation at 49 CFR Parts 100 through 185.

TDG Classification below is only applicable when shipped by vessel and is not applicable when shipped by road or rail only.

UN/ID no	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
Hazard class	9
Packing Group	III
Marine Pollutant	Sulfentrazone.
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (sulfentrazone), 9 III, Marine Pollutant

ICAO/IATA

UN/ID no	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
Hazard class	9
Packing Group	III
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (sulfentrazone), 9 III, Marine Pollutant

IMDG/IMO

UN/ID no	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
Hazard class	9
Packing Group	III
EmS No.	F-A, S-F
Marine Pollutant	Sulfentrazone
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (sulfentrazone), 9 III, Marine Pollutant

Additional information

Other information : No supplementary information available.

SECTION 15: Regulatory 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:

CAUTION: Causes moderate eye irritation. Harmful if inhaled, swallowed or absorbed through the skin. This pesticide is toxic to marine/estuarine invertebrates.

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15.1. US Federal regulations

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical name	CWA – Reportable quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants	CWA – Hazardous Substances
Toluene 108-88-3	1000 lb	X	X	x

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Toluene 108-88-3	1000 lb 454 kg	

15.2. International regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

Other information : None.

SDS US (GHS HazCom 2012) - Pesticides

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.