



Safety Data Sheet

Report Date 11-Mar-22

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1. Identification

Product Name : HELENA GLUFOSINATE 280 SL HERBICIDE
Synonyms : None
Product Use : Non-selective Herbicide
Manufacturer/Supplier : Helena Agri-Enterprises, LLC
Address : 225 Schilling Blvd. Collierville, TN 38017
General Information : 901-761-0050
Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification



Signal Word : Danger
Skin Irritation : Not classified as hazardous under 29 CFR 1910.1200 (2012)
Eye Irritation : Causes serious eye irritation
Acute Toxicity Oral : LD50 >300 to <2,000 mg/kg (female rat)
Acute Toxicity Dermal : LD50 >2,000 mg/kg (rat)
Hazard Categories : Oral/Inhalation Tox-4/4; Eye Irritation-2A; Skin Sensitization-1; STOT, Repeated-2; Reproductive-1B
Hazard Statement : Harmful if swallowed
Harmful if inhaled
Causes serious eye irritation
May cause an allergic skin reaction
May cause damage to organs through prolonged or repeated exposure
May damage fertility or the unborn child

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Glufosinate-ammonium: butanoic acid, 2-amino-4-(hydroxymethylphosphinyl)-, monoammonium salt	77182-82-2	24.50
Polyethyleneglycolmonoalkylethersulfate, sodium salt	68891-38-3	10.0-20.0
1-Methoxypropan-2-ol	107-98-2	3.0-5.0
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	3.0-7.0
Nonhazardous ingredients	Proprietary	43.5-59.5



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4. First Aid Measures

- Eye** : Wash affected eyes for at least 15 minutes under running water with eyelids held open. Consult an eye specialist. Remove contact lenses, if present.
- Skin** : Wash thoroughly with soap and water. If symptoms persist, seek medical advice.
- Inhalation** : Keep patient calm, remove to fresh air, seek medical attention. If not breathing, give artificial respiration.
- Ingestion** : Immediately rinse mouth and then drink 6 to 10 ounces of water. Seek medical attention. Do not induce vomiting.
- Indication of Immediate Medical Attention and Special Treatment Needed** : Treat according to symptoms (decontamination, vital functions). No known specific antidote.

5. Fire Fighting Measures

- Extinguishing Media** : Use water spray, dry powder, foam, carbon dioxide. Do not use water jet.
- Specific Hazards Arising from the Chemical** : During fire fighting, may emit carbon monoxide, carbon dioxide, nitrous gases, sulfur oxides.
- Special Fire Fight Proc** : Wear self-contained breathing apparatus and chemical-protective clothing. Keep containers cool by spraying with water if exposed to fire. Do not breathe fumes. Collect contaminated fire fighting water separately. Do not allow to reach waterways.

6. Accidental Release Measures

- Personal Precautions** : Do not breathe vapor/spray. Use personal protective clothing. Avoid contact with skin, eyes and clothing.
- Protective Equipment** : Splashproof goggles or face shield, chemical-resistant gloves, impervious apron and footwear. Use NIOSH-certified TC-23C if ventilation is inadequate. Eyewash and emergency shower should be available in work area.
- Emergency Procedures** : Do not discharge into the subsoil/soil. Do not discharge into drains, surface waters, groundwater.
- Methods and Materials for Containment and Cleanup** : Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled product should be recovered and applied according to label rates whenever possible. If application as product is not possible, solidify spilled material with absorbent, place in suitable containers and make arrangements for disposal. Decontaminate spill area water, collect wash water for approved disposal.

7. Handling and Storage

- Precautions for Safe Handling** : Refer to product label Agricultural Use Requirements. Ensure adequate ventilation. Keep away from sources of ignition - No Smoking. Keep container tightly sealed. Protect against heat. Protect contents from the effects of light. Protect from air. Handle and open container with care. Do not open until ready to use. Use contents as soon as possible after opening container.



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Conditions for Safe Storage : Segregate from foods and animal feeds. Keep away from heat. Protect from direct sunlight. Storage duration: 36 months.

8. Exposure Controls / Personal Protection

TLV/PEL : 1-methoxypropan-2-ol: TLV 50 ppm.

Appropriate Engineering Controls : Provide good ventilation, local exhaust ventilation if necessary.

Personal Protective Equipment : Splashproof goggles or face shield, chemical-resistant gloves, impervious apron and footwear. Use NIOSH-certified TC-23C if ventilation is inadequate. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

Odor/Appearance : Red liquid with characteristic odor.

Flash Point, °F : >199.94 Degrees F.

Boiling Point, °F : Product not tested

Melting Point(Freezing point), °C : Product not tested

Vapor Pressure, mm Hg @ 20 °C : Product not tested

Vapor Density : Not applicable

Solubility in Water : Miscible

Molecular Formula : No information found

Density, g/mL @ 25 °C : 1.14 (approx.)

Evaporation Rate(Butyl Acetate = 1) : Not applicable

Octanol/Water Partition Coefficient : Not applicable

pH : 6.6 to 7.8 (approx.)

Flammable Limits (approximate volume % in air) : No information found

Auto-ignition Temperature : Does not ignite

Decomposition temperature : No decomposition if stored and handled as indicated

10. Stability and Reactivity

Reactivity : Not reactive if stored/handled as prescribed.

Chemical Stability : Stable

Hazardous Decomposition Products : No hazardous decomposition products if stored and handled as prescribed/indicated.

Hazardous Polymerization : Will not occur

Conditions to Avoid : Keep away from heat, protect from sunlight.

Incompatible Materials : Strong acids, strong bases and strong oxidizing agents.



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11. Toxicological Information

- Acute Toxicity (Oral LD50)** : >300 and <2,000 mg/kg (female rat). Harmful if swallowed.
- Acute Toxicity (Dermal LD50)** : >2,000 mg/kg (rat). Not classified as hazardous under 29 CFR 1910.1200 (2012).
- Acute Toxicity Inhalation LC50** : >2.1 mg/L/4 hour (rat). Harmful if inhaled.
- Likely Routes of Exposure** : Ingestion, inhalation, skin and eye contact.
- Skin Irritation** : Not classified as hazardous under 29 CFR 1910.1200 (2012).
- Eye Irritation** : Causes serious eye irritation.
- Skin Sensitization** : May cause an allergic skin reaction.
- Carcinogenic** : This product has not been tested.
- Chronic Effects** : SPECIFIC TARGET ORGAN TOXICITY, REPEATED EXPOSURE: May cause damage to organs through prolonged or repeated exposure. REPRODUCTIVE TOXICITY: May damage fertility or the unborn child.
- Other Hazards** : CA PROPOSITION 65 WARNINGS: No listed ingredient appears on the CA PROPOSITION 65 WARNINGS listing.

12. Ecological Information

- Ecotoxicity** : No information found
- Persistence and Degradability** : No information found
- Bioaccumulative Potential** : No information found
- Mobility in Soil** : No information found
- Other Adverse Effects** : No information found

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, IATA or IMDG.
- Transport Hazard Class** : None
- UN Identification Number** : None
- Packaging Group** : None
- Environmental Hazards** : No information found
- Transport in Bulk** : Not regulated by DOT in bulk packages.
- Special Precautions for Transportation** : No information found
- Freight Classification** : Pesticides, NOI, Herbicides, Other than Poison (NMFC Item 155050, Sub 11, Class 70)



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15. Regulatory Information

National Fire Protection Association Rating :

Health: 2 Fire: 1 Reactivity: 1
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 : 7969-448-5905

FIFRA Signal Word : Warning

FIFRA Label Statement : Keep out of reach of children.

FIFRA Label Statement : Causes substantial but temporary eye injury.

FIFRA Label Statement : Harmful if absorbed through skin. Harmful if swallowed.

FIFRA Label Statement : Do not get in eyes, on skin or on clothing.

FIFRA Label Statement : Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

FIFRA Label Statement : Wash thoroughly with soap and water after handling and

FIFRA Label Statement : before eating, drinking, chewing gum, using tobacco, or using the toilet.

16. Other Information

Data of Preparation/Revision : 11-March-2022