



SAFETY DATA SHEET

SDS ID: 74530-43

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	Helosate Plus Advanced Herbicide
Product use / type:	Herbicide
EPA Registration No.:	74530-43
Chemical name / active ingredient(s):	Glyphosate, isopropylamine salt
Manufacturer / Registrant:	Helm Agro US, Inc. 4042 Park Oaks Blvd., Suite 330 Tampa, FL 33610
Manufacturer's Telephone:	813-621-8846
Email:	info@helmagro.com
Chemical emergencies:	1-800-424-9300 (Chemtrec)

2. HAZARDS IDENTIFICATION

This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

Classification

Serious Eye Damage / Eye Irritation	Not classified
Skin Corrosion / Irritation	Not classified
Skin Sensitization	Not classified
Acute Oral	Not classified
Acute Dermal	Not classified
Acute Inhalation	Not classified

EMERGENCY OVERVIEW

Signal Word: CAUTION

Pictogram: None

Appearance: Amber

Physical state: Liquid

Odor: Mild, sweet

Hazard Statements:

- Not applicable

Precautionary Statements:

- Wear protective gloves/eye protection.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation develops: Get medical attention / advice.

SAFETY DATA SHEET

Helosate Plus Advanced Herbicide

SDS ID: 74530-43

- IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention / advice. Wash contaminated clothing before reuse.
- Do not breathe dust/mist/vapors/spray.
- Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Other Information / Potential Hazards:

May cause mild eye irritation.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %
Glycine, N-(phosphonomethyl)-, compound with 2-propanamine (1:1)	38641-94-0	41.0
Other ingredients	Proprietary	59.0

4. FIRST AID MEASURES

If in Eyes:	<ul style="list-style-type: none">• Hold eye open and rinse gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
If on skin or clothing:	<ul style="list-style-type: none">• Remove contaminated clothing and shoes.• Rinse skin with plenty of water for 15 minutes. If irritation develops, call a poison control center or seek medical advice.
If inhaled:	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or get medical help, then give artificial respiration, preferably by mouth-to-mouth.• Call a poison control center or seek medical advice.
If swallowed:	<ul style="list-style-type: none">• 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.
Note to Physician:	<ul style="list-style-type: none">• Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable properties:	Non-flammable.
Extinguishing media	Water spray, alcohol resistant foam, CO ₂
Unsuitable extinguishing media:	High pressure water streams.

SAFETY DATA SHEET

Helosate Plus Advanced Herbicide

SDS ID: 74530-43

- Firefighting measures:** Move container from fire area if it can be done without risk. Use extinguishing media appropriate for surrounding fire.
- Protective equipment and precautions for firefighters:** Wear full protective firefighting gear including self-contained breathing apparatus pressure demand (MSHA/NIOSH approved or equivalent).
- Hazardous decomposition products:** Oxides of carbon and nitrogen. May release irritating and toxic vapors due to thermal decomposition.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Wear protective gloves / clothing and eye protection. Avoid contact with eyes, skin and clothing. Ensure adequate ventilation.
- Environmental precautions:** Collect spillage. Keep out of waterways, sewers, drains and confined areas.
- Methods for containment:** Contain spill with inert material (e.g. sand, silical gel, binder).
- Methods for cleanup:** Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

- Precautions for safe handling:** Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product.
- Precautions for safe storage:** Store and handle in accordance with all current regulations and standards. Store in a tightly closed container. Store in a cool, dry place. Store in a well-ventilated area.
- Incompatible storage situations:** Do not store in galvanized or unlined steel containers. Separate pesticides during storage to prevent cross-contamination of other pesticides, fertilizers, food, and feed. Protect from extreme freezing temperatures.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Guidelines:

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

- Engineering controls:** Ensure adequate ventilation, especially in confined areas.
- Personal protective equipment**
Eye / face protection: Wear chemical-tight goggles. If splashing is likely to occur, wear a full face shield.

SAFETY DATA SHEET

Helosate Plus Advanced Herbicide

SDS ID: 74530-43

Body / skin protection:	Long sleeved shirt, long pants, shoes plus socks.
Hand protection:	Wear gloves / hand protection.
Respiratory protection:	If handling without sufficient ventilation, wear a dust / mist filtering respirator with organic cartridge(s).

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Appearance:	Amber
Odor:	Mild, sweet
pH:	4.5 – 5.0 (1% solution)
Boiling point:	No information available
Flash point:	Not applicable
Relative density:	1.1 g/ml
Water solubility:	Soluble
Viscosity:	No information available
Log pow:	No information available

10. STABILITY AND REACTIVITY

Reactivity / chemical stability:	Stable under normal temperature and conditions.
Conditions / Materials to avoid:	Direct sunlight. Strong oxidizing agents. Galvanized steel and unlined steel containers.
Hazardous decomposition products:	Oxides of carbon, Oxides of nitrogen.
Hazardous reactions:	Not expected under normal conditions of handling and use.

11. TOXICOLOGICAL INFORMATION

Product toxicology:

Acute oral LD50:	Rat LD ₅₀ : >5000 mg/kg
Acute dermal LD50:	Rat LD ₅₀ : >5000 mg/kg
Acute inhalation LC50:	Rat 4-hr LC50: >2.03 mg/l
Eye irritation:	Mild eye irritation.
Skin irritation:	Nonirritating.
Sensitization:	Not a sensitizer.

Component toxicology:

Glycine, N-(phosphonomethyl)-, compound with 2-propanamine (1:1)	
Acute oral LD50:	Rat LD ₅₀ : 10537 mg/kg
Acute dermal LD50:	Rat LD ₅₀ : 7500 mg/kg
Acute inhalation LC50:	No information available

Carcinogenicity:	No component of this product present at 0.1% or greater is listed by IARC, OSHA, NIOSH or NTP.
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SAFETY DATA SHEET

Helosate Plus Advanced Herbicide

SDS ID: 74530-43

Mutagenic effects: No information available

12. ECOLOGICAL INFORMATION

Environmental Hazards: May be harmful to aquatic life. Do not apply to any body of water.

Persistence and degradability: No information available

Bioaccumulation: No information available

Environmental fate: No information available

13. DISPOSAL CONSIDERATIONS

Product disposal: Wastes resulting from the use of this product that cannot be used or chemically reprocessed must be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, State or local procedures.

Container disposal: Emptied container retains vapor and product residue. Observe all labeled safeguards until container is destroyed.

14. TRANSPORT INFORMATION

U.S. DOT: Not regulated for transport.

15. REGULATORY INFORMATION

U.S. Federal Regulations:

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:

Signal word: Caution

Causes moderate eye irritation. Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before re-use.

TSCA: All components of this product are listed on or are exempt from listing on the TSCA chemical inventory.

SARA 311/312: No components listed

SARA 313: No components listed

CERCLA: No components listed

U.S. State Regulations:

State Right-to-Know Regulations: This product does not contain substances subject to state right-to-know regulations.

California Proposition 65: This product contains one or more substances known to the state of California to cause cancer and/or reproductive/developmental effects.

SAFETY DATA SHEET

Helosate Plus Advanced Herbicide

SDS ID: 74530-43

16. OTHER INFORMATION

NFPA Ratings:	Health	Fire	Instability
	1	0	0

Revision No.: 2.0
Revision Date: 05 May 2014
Revision Note: Update to GHS classification and format

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DFG – Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSL - Domestic Substances List; EEC – European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; GHS – Global Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL – Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; MAK – Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Association; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

Other information / Disclaimer

SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE, except that the product shall conform to contracted specifications, and that the product does not infringe any valid United States or Canadian patent. No claim of any kind shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise.

End of Safety Data Sheet