

MATERIAL SAFETY DATA SHEET

REMUDA® II

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Issue Date: 10/08

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product

REMUDA® II

EPA Reg. No. 19713-526-54705

Common Name: Glyphosate Herbicide.

Chemical Description: Isopropylamine salt of N-(phosphonomethyl) glycine, solution.

TSCA/CAS No.: The primary CAS No. is 38641-94-0.

Manufactured For

Lawn and Garden Products, Inc.

P. O. Box 35000

Fresno, CA 93745-5000

Emergency Phone Numbers

Emergency Telephone: DAYS: (559) 499-2100 EVES.: (559) 994-9144

CHEMTREC (24-Hour Emergency Number): (800) 424-9300

EPA National Response Center: (800) 424-8802

SECTION 2. INGREDIENTS

CHEMICAL	CAS NO.	%	TLV OR PEL	RQ (lbs)
Glyphosate, Isopropylamine salt	38641-94-0	41.0	5 mg/m ³	N.P.*
Inerts	N/A	59.0	N/A	N/A

* N.A. – Not applicable.

* N.P. - Not Pertinent

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Clear, viscous amber-colored solution with slight odor. Causes substantial but temporary eye injury. Harmful if swallowed, inhaled or absorbed through skin. Spray solutions should be mixed, stored, or applied only in stainless steel, aluminum, fiberglass, or plastic containers. Avoid extreme temperatures. Not D.O.T. regulated.

HEALTH: 2 REACTIVITY: 0 FLAMMABILITY: 1 ENVIRONMENT: 0
(0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme)

SECTION 4. FIRST AID

- Eyes: Hold eye 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.
- Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes.
- Ingestion: 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 or convulsing person.
- Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.

SECTION 5.	FIRE AND EXPLOSION HAZARDS
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Flash Point:	> 200°F.
Test Method:	Not available.
LEL Flammable Limits:	Not available.
UEL Flammable Limits:	Not available.
Autoignition Temperature:	Not available.
Flammability Classification:	Noncombustible.
Known Hazardous Products of Combustion:	Not available.
Properties that Initiate/Contribute to Intensity of Fire:	Not known.
Potential For Dust Explosion:	None.
Reactions that Release Flammable Gases or Vapors:	None known.
Potential For Release of Flammable Vapors:	None.
Unusual Fire & Explosion Hazards:	Not known.
Extinguishing Media:	Water spray, foam, dry chemical, carbon dioxide, or any class B extinguishing agent.
Special Firefighting Procedures:	Self-contained breathing apparatus and full protective clothing. Prevent runoff if possible.

SECTION 6.	SPIILLS AND LEAKS
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Containment:	Prevent product spillage from entering drinking water supplies or streams.
Clean Up:	Collect liquid or absorb onto absorbent material and package for disposal according to local, state and federal regulations.
Evacuation:	Not necessary.

SECTION 7.	STORAGE AND HANDLING
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Storage:	Store in plastic or stainless steel container in a cool, well-ventilated, dry place at temperatures above 40°F. Protect from excessive heat. Do not store near food or feeds. Do not stack pallets more than two (2) high.
Transfer Equipment:	Transfer product using chemical-resistant plastic or stainless steel tanks, pumps, valves, etc.
Work/Hygienic Practices:	Keep out of reach of children and domestic animals. Causes substantial, but temporary eye injury. Harmful if inhaled or absorbed through the skin. Do not get in eyes, on skin or on clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

SECTION 8.	PERSONAL PROTECTIVE EQUIPMENT
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Eyes:	Chemical dust/splash goggles or full-face shield to prevent eye contact. As a general rule, do not wear contact lenses when handling.
Skin:	Long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks.
Respiratory:	Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH-approved dust/mist respirator (such as 3M #8710).
Ventilation:	Recommended.

SECTION 9. PHYSICAL AND CHEMICAL DATA

Appearance:	Clear, viscous amber colored solution.
Odor:	Slight odor.
pH:	4.99% (1% solution).
Vapor Pressure:	Not determined.
Vapor Density (Air = 1):	Not available.
Boiling Point:	Not determined.
Freezing Point:	Not available.
Water Solubility:	Soluble.
Density:	9.75 lbs./gal.
Evaporation Rate:	Not determined.
Viscosity:	Not available.
% Volatile:	Negligible.
Octanol/Water Partition Coefficient:	Not available.
Saturated Vapor Concentration:	Not available.

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable.
Conditions To Avoid:	Extreme temperatures.
Incompatibility:	Spray solutions should be mixed, stored, or applied only in stainless steel, aluminum, fiberglass, or plastic containers.
Hazardous Decomposition Products:	Oxides of carbon and nitrogen.
Hazardous Polymerization:	Will not occur.

SECTION 11. POTENTIAL HEALTH EFFECTSAcute Effects:

Eyes:	Irritating to eyes.
Skin:	Mildly irritating to the skin. Not expected to cause skin sensitization. LD ₅₀ (Rat): > 5,000 mg/kg.
Ingestion:	Can cause stomach irritation, resulting in nausea, cramps and vomiting. LD ₅₀ (Rat): > 5,000 mg/kg.
Inhalation:	May be irritating to respiratory tract.
<u>Subchronic Effects:</u>	Not known.
<u>Chronic Effects:</u>	Not known.

SECTION 12. ECOLOGICAL INFORMATION

Algal/Lemna Growth Inhibition:	Not known.
Toxicity to Fish and Invertebrates:	Not known.
Toxicity to Plants:	Not known.
Toxicity in Birds:	Not known.

SECTION 13. DISPOSAL

Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment washwaters. Dispose of waste effluents according to state and local regulations. Also, chemical additions or other alterations of this product may invalidate any disposal information in this MSDS. Therefore, consult local waste regulators for proper disposal. Do not discharge.

SECTION 14. TRANSPORTATION

D.O.T.:	Not D.O.T. Regulated.
Other Shipping Description:	Compounds, Tree or Weed Killing (Herbicide), Liquid. NMFC Item 50520, LTL Class 60

SECTION 15. REGULATORY INFORMATION

CERCLA: Not listed.

SARA TITLE III, Section 313 Toxic Chemicals: None.

PROPOSITION 65 (CA): Not listed.

SECTION 16. OTHER

All information appearing in this document was based on data provided by third party sources and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act. The information is believed to be accurate as of the preparation date, but is not warranted as being the final authority in the use of this product. This information does not purport to be legal or medical advice.