

MATERIAL SAFETY DATA SHEET

REMUDA FULL STRENGTH

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Issue Date: 02/02

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product

REMUDA FULL STRENGTH

EPA Reg. No. 228-366-54705

Common Name: Liquid herbicide.

Chemical Description: Glyphosate, N-(phosphonomethyl) glycine, in the form of its isopropylamine salt.

TSCA/CAS No.: This product is a mixture — there is no specific CAS No.

Manufactured For

Lawn & Garden Products, Inc.

P. O. Box 35000

Fresno, CA 93745-5000

Emergency Phone Numbers

Emergency Telephone: DAYS: (559) 499-2100 EVES.: (559) 435-2163

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

EPA National Response Center: (800) 424-8802

SECTION 2. HAZARDOUS INGREDIENTS

CHEMICAL	CAS NO.	%	TLV OR PEL	RQ (lbs)
Glyphosate, N-(phosphonomethyl) glycine, in the form of its isopropylamine salt	38641-94-0 (as the salt) 1071-83-6 (for glyphosate acid)	41.0	N.E*	N.P.*

* N.E. – Not Established.

* N.P. – Not Pertinent.

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Clear, viscous greenish/yellow solution with no odor. Causes moderate eye irritation. Harmful if swallowed or inhaled. Not D.O.T. regulated.

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

SECTION 4. FIRST AID

Eyes: Flush eyes with plenty of water. Call a physician if irritation persists.

Skin: Wash thoroughly with soap and water. Seek medical attention if irritation develops.

Ingestion: This product will cause gastrointestinal tract irritation. Immediately dilute by swallowing water or milk. Get medical attention. Do not give anything by mouth to an unconscious person.

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth and get medical attention.

SECTION 5. FIRE AND EXPLOSION HAZARDS

Flash Point:	None.
Test Method:	Not available.
LEL Flammable Limits:	Not available.
UEL Flammable Limits:	Not available.
Autoignition Temperature:	Not determined.
Flammability Classification:	Nonflammable.
Known Hazardous Products of Combustion:	CO ₂ , CO, NO _x
Properties that Initiate/Contribute to Intensity of Fire:	Not known.
Potential For Dust Explosion:	None.
Reactions that Release Flammable Gases or Vapors:	Not known.
Potential For Release of Flammable Vapors:	Not known.
Unusual Fire & Explosion Hazards:	None.
Extinguishing Media:	Water, dry chemical, carbon dioxide or alcohol foam.
Special Firefighting Procedures:	Wear positive pressure, self-contained breathing apparatus and goggles. Avoid inhalation of vapors and fumes. Contain any liquid runoff.

SECTION 6. SPILLS AND LEAKS

Containment:	Prevent product spillage from entering drinking water supplies or streams.
Clean Up:	Collect liquid or absorb onto absorbent material and package for proper disposal.
Evacuation:	Not necessary.

SECTION 7. STORAGE AND HANDLING

Storage:	Store in original container in a cool, well-ventilated, dry place at temperatures above 0°F (-12°C) to keep product from crystallizing. Crystals will settle to the bottom. If allowed to crystallize, place in a warm room 68°F (20°C) for several days to redissolve and shake or roll to mix well before using. Product is stable under normal conditions of storage and handling for at least 5 years. 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. Causes moderate eye irritation. Harmful if swallowed or inhaled. Avoid contact with eyes, skin and clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse. Keep children and pets off the treated area until sprays have dried.

SECTION 8. PERSONAL PROTECTIVE EQUIPMENT

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, long pants, shoes plus socks and protective eyewear.
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 but no TLV established.

SECTION 9. PHYSICAL AND CHEMICAL DATA

Appearance:	Clear, viscous greenish/yellow solution.
Odor:	Odorless at 23 degrees C.
pH:	4.84 (1% solution)
Vapor Pressure:	Not available.
Vapor Density (Air = 1):	Not available.
Boiling Point:	Not available.
Freezing Point:	Not available.
Water Solubility:	Emulsifiable.
Density:	9.67 lbs./gal.
Evaporation Rate:	Not available.
Viscosity:	Not available.
% Volatile by Vol.:	Not available.
Octanol/Water Partition Coefficient:	Not available.
Saturated Vapor Concentration:	Not available.

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable.
Conditions To Avoid:	None known.
Incompatibility:	Avoid acids and bases.
Hazardous Decomposition Products:	None.
Hazardous Polymerization:	Will not occur.

SECTION 11. POTENTIAL HEALTH EFFECTSAcute Effects:

Eyes:	Moderately irritating. FIFRA Category III.
Skin:	Slightly irritating. LD ₅₀ (rabbit): > 5000 mg/kg.
Ingestion:	May cause irritation of the gastrointestinal tract. Oral LD ₅₀ (rat): > 5,000 mg/kg.
Inhalation:	Slightly irritating. LD ₅₀ (rat): > 5000 mg/kg.

Subchronic Effects: None known.

Chronic Effects: None known.

SECTION 12. ECOLOGICAL INFORMATION

Algal/Lemna Growth Inhibition:	Slightly to moderately toxic.
Toxicity to Fish and Invertebrates:	Slightly to moderately toxic.
Toxicity to Plants:	Toxic.
Toxicity in Birds:	Practically non-toxic.

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 50320, LTL Class 60

SECTION 15. REGULATORY INFORMATION

CERCLA: None.

SARA TITLE III, Section 313 Toxic Chemicals: None.

Proposition 65: None.

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.