



# REMUDA® WEED & GRASS KILLER

## SECTION 1: MATERIAL IDENTIFICATION

**Product Name:** Remuda® Weed & Grass Killer  
**EPA Reg. No.:** 19713-526-54705  
**Product Usage:** Herbicide

**Manufactured for:** Lawn and Garden Products, Inc.  
**Address:** PO Box 35000  
 Fresno, CA 93745-5000  
 559-499-2100

**Emergency Telephone Number:** CHEMTREC® 800-424-9300

This product is an EPA FIFRA registered pesticide. Some of the classifications on this SDS are not the same as the FIFRA label. Certain sections of this SDS are superseded by federal law governed by EPA for a registered pesticide. Refer to SECTION 15: REGULATORY INFORMATION for explanation.

## SECTION 2: HAZARD IDENTIFICATION (As defined by the OSHA Hazard Communication Standard, 29)

**Label Elements:**  
**Signal Word:**

WARNING



**Classifications:**  
**Hazard Class:**

<b><u>Toxicity Study:</u></b>	<b><u>Category:</u></b>
Acute Toxicity, Inhalation	Category 4
Serious eye damage / Irritation	Category 2B
Corrosive Metals	Category 1
Hazard to Aquatic Environment, short term (Acute)	Category 2

**Hazard Statements:**

<b><u>H Code:</u></b>	<b><u>Statement:</u></b>
H332	Harmful if inhaled
H320	Cause eye irritation
H290	May be corrosive to metals
H401	Toxic to aquatic life

**Precautionary Statements:**

**Prevention:**

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Wash face, hands and any exposed skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- In case of inadequate ventilation, wear respiratory protection.
- Avoid release into the environment.

**Response:**

**If in Eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Get immediate medical advice/attention.

**If Swallowed:** Call a POISON CENTER or doctor/physician if you feel unwell. Treat symptomatically.

**If Inhaled:** Remove person to fresh air and keep comfortable for breathing. Call POISON CENTER or doctor if you feel unwell.  
**If on Skin or Clothing:** Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.  
**If exposed or concerned:** None available, get medical attention.

**Storage:** Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal:** Dispose of contents/container in accordance with your local or area regulatory authorities.

**Specific hazards:** None available.

### SECTION 3: COMPOSITION INFORMATION

<b>Chemical Name:</b>	<b>Synonym:</b>	<b>CAS No.:</b>	<b>EC No.:</b>	<b>RTECS:</b>	<b>% By Wt.:</b>
<b>Active Ingredient:</b> Isopropylamine salt of Glyphosate	Glyphosate isopropylamine salt	38641-94-0	254-056-8	1008312GP	41.0%
<b>Inert Ingredients:</b>	N/A	N/A	N/A	N/A	59.0%

\*The product contains a nominal concentration of 41.0 % w/w of active as its Isopropylamine salt which is equivalent to 30.4% w/w active glyphosate (CAS 1071-83-6).

### SECTION 4: FIRST-AID MEASURES

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also call CHEMTREC at 800-424-9300 for emergency medical treatment information.

**Eye Contact:** 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. Call a poison control center or doctor for treatment advice.

**If Swallowed:** 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.

**Skin/Clothing Contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

**If Inhaled:** 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. Call a poison control center or doctor for further treatment advice.

**Indication of Medical Attention and Special Treatment Needed:** None / Treat symptomatically

### SECTION 5: FIRE FIGHTING MEASURES

**Fire Fighting Media:** Use foam, dry chemical, carbon dioxide, or water fog when fighting fires involving this product. Do not use water jet, as this may spread burning material. Minimize the use of water to avoid environmental contamination. Contain all runoff.

**Fire Fighting Procedures:** Keep people away. Isolate fire and deny unnecessary entry. Evacuate the area and fight the fire from upwind at a safe distance to avoid hazardous vapors or decomposition

products. Dike and collect fire-extinguishing water to prevent environmental damage and excessive waste runoff.

**Special Protective Equipment for Firefighters:**

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). Use full face shield and operate in positive pressure mode. Avoid contact with this material during firefighting operations. If contact is likely, change to full chemical resistant firefighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

**Specific Fire Hazards:**


Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Thermal decomposition during a fire can produce fumes and irritating gases.

Flammability classification (OSHA 29 CFR 1910.1200): Non-Combustible.  
 Flash point: >200°F  
 Lower flammable limit (% by volume): N/Av  
 Upper flammable limit (% by volume): N/Av

**Hazardous Combustion Products:**

Carbon oxides, phosphorus oxides, nitrogen oxides, and irritating fumes and smoke.

**National Fire Protection Association:**

<b>NFPA:</b> 	<b>Health</b>	<b>Fire</b>	<b>Reactivity</b>
	1	1	0

Ratings:    4-Extreme    3-High    2-Moderate    1-Slight    0-Insignificant

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:**

Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to SECTION 7: HANDLING AND STORAGE, for additional precautionary measures. Ventilate area of leak or spill. Use appropriate safety equipment. For additional information, refer to SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION.

**Environmental Precautions:**

Prevent from entering soil, ditches, sewers, waterways and/or groundwater. Refer to SECTION 12: ECOLOGICAL INFORMATION.

**Steps to be taken if Material is Released or Spilled:**

Control the spill at its source.

Small spills: Contain spilled material if possible. Apply suitable absorbent, absorb in earth, sand or absorbent material and sweep up. Collect in suitable and properly labeled containers.

Large spills: Contact Drexel Chemical Company for clean-up assistance. Refer to SECTION 13: DISPOSAL CONSIDERATIONS, for additional information. Prevent entry into waterways, sewers, basements or confined areas.

**SECTION 7: HANDLING AND STORAGE**

**KEEP OUT OF REACH OF CHILDREN**

**Handling:** **General Handling:** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not swallow. Avoid breathing dust. Use with adequate ventilation. Wear long-sleeved shirt, long pants and shoes with socks

when handling. Keep away from heat, sparks and flame. Refer to SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**Storage:** Store in a cool, dry, ventilated and secure area designated specifically for pesticides and away from heat sources. Keep in original containers and keep containers closed when not in use. Do not store in excessive heat. Do not store near children, food, foodstuffs, drugs or potable water supplies.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**Occupational Exposure Limits:**

Components:	OSHA PEL	ACGIH TLV
Isopropylamine salt of Glyphosate	N/A	5mg/m <sup>3</sup>

**THIS SECTION IS FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD REFER TO THE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.**

**Engineering Controls:**

**Ventilation:** Investigate engineering techniques to reduce exposures. No special requirements when used as recommended.

**Personal Protection:**

**Eye/Face Protection:** Eye contact should be avoided through the use of chemical safety glasses, goggles, or a face shield selected in regard to exposure potential. Wear chemical splash goggles to prevent vapors or mists from entering the eyes. Where there is potential for eye contact have eye flushing equipment available. Safety glasses with side-shields.

**Ingestion:** Avoid ingestion of even very small amounts; do not consume or store food or tobacco in the work area; wash hands and face thoroughly with soap and water before smoking or eating. Avoid getting wash water in eyes.

**Hand Protection:** Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Neoprene, Nitrile/butadiene rubber (“nitrile” or “NBR”) or Polyvinyl chloride (“PVC” or “vinyl”).

**Skin Protection:** Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task. Safety shower should be located in immediate work area. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse or dispose of properly. Items which cannot be decontaminated, such as shoes, belts and watchbands, should be removed and disposed of properly.

**Respiratory Protection:** Not normally required. Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. When handling in enclosed areas, when large quantities of mists are generated or prolonged exposure is possible in excess of the TLV, use a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Reported Value
Physical State	Liquid
Appearance / Color	Amber
Odor	Slight odor
Odor threshold	Not available
pH	4.5 -5.0
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Flash point	> 200°F
Evaporation rate	Not available
Flammability	Not available

Upper flammability/explosive limits	Not available
Lower flammability/explosive limits	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	9.85 lbs. / gal.
Solubility in water	Not available
Solubility in organic solvents	Not available
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	40 -50 cps @ 20°C
Explosive properties	Non-explosive
Oxidizing properties	Not available
Dissociation Constant	Not available

## SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity:</b>	Thermally stable at typical use temperatures and in closed containers.
<b>Chemical Stability:</b>	Stable under recommended storage conditions.
<b>Hazardous Polymerization:</b>	Will not occur
<b>Conditions to Avoid:</b>	Avoid heat of open flame. Avoid high temperatures above 130°F (54.4°C).
<b>Incompatible Materials:</b>	Reacts with galvanized steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode.
<b>Hazardous Decomposition Products:</b>	Decomposition products can include and are not limited to: Carbon oxides, nitrogen oxides, and phosphorus oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Acute Toxicity:

<b>Potential routes of exposure/potential health effects:</b>	Eye contact. Inhalation
<b>Acute Oral:</b>	<b>LD<sub>50</sub> (Rat):</b> >5,000 mg/kg
<b>Acute Dermal:</b>	<b>LD<sub>50</sub> (Rat):</b> >5,000 mg/kg
<b>Acute Inhalation:</b>	<b>LC<sub>50</sub> (Rat):</b> >2.9 mg/L
<b>Eye Irritation:</b>	<b>(Rabbit):</b> Slightly irritation
<b>Skin Irritation:</b>	<b>(Rabbit):</b> Non-irritation
<b>Skin Sensitization:</b>	<b>(Guinea Pig):</b> Non-sensitizer

<b>Chronic Toxicity:</b>	This product does not contain any materials which are classified as Carcinogenic by OSHA, ACGIH, or NTP.
<b>Carcinogenicity:</b>	This product does not contain any materials which are classified as Carcinogenic by OSHA, ACGIH, or NTP. Glyphosate has been classified by the International Agency for Research on Cancer (IARC) as "probable human carcinogen (Group 2A)".
<b>Mutagenicity:</b>	No data available
<b>Teratogenicity:</b>	No data available
<b>Reproductive Toxicity:</b>	No data available
<b>Developmental Toxicity:</b>	No data available
<b>Other Hazards Effects:</b>	No data available

## SECTION 12: ECOLOGICAL INFORMATION

### ENVIRONMENTAL FATE:

Isopropylamine salt of  
Glyphosate

Moderately toxic to fish, slightly toxic to aquatic invertebrates and plants and practically non-toxic to birds and bees.

### ECO-ACUTE TOXICITY

#### Aquatic Toxicity:

Rainbow Trout, LC <sub>50</sub> 96 hour	5.4 mg/L
Bluegill Sunfish, LC <sub>50</sub> 96 hour	7.3 mg/L
Daphnia magna, LC <sub>50</sub> 48 hour	11 mg/L

#### Arthropod Toxicity:

Bees, Acute LD<sub>50</sub> 100 µg/bee

#### Bird Toxicity:

Mallard Duck, LD <sub>50</sub>	>5620 mg/kg
Bobwhite Quail, LD <sub>50</sub>	>5620 mg/kg

#### Soil Organism Toxicity:

Earthworm acute toxicity 14 days, LC50: >1200 mg/kg soil

#### Persistence and degradability:

#### Bioaccumulation:

#### Mobility in soil:

Adsorbs strongly to soil. Low potential for leaching into groundwater or moving to deeper soil layers. Moderately to partially biodegradable, no significant bioaccumulation expected.

#### Other adverse effects:

Do not contaminate water supplies, lakes, streams, ponds or drains with this product.

## SECTION 13: DISPOSAL CONSIDERATIONS

If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

## SECTION 14: TRANSPORT INFORMATION

DOT: Not Regulated

IMDG: Not Regulated

IATA / ICAO: Not Regulated

UN Identification No.: Not applicable

Proper Shipping Name: Not applicable

Hazard Class: Not applicable

Packing Group: Not applicable

Reportable Quantity: Not applicable

Environmental Hazard: Not applicable

Freight Description: Compounds, Tree or Weed Killing (Herbicide)

ERG Guide No.: 171

Transport Information Note: Not applicable

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

## SECTION 15: REGULATORY INFORMATION

<b>OSHA Hazard Communication Standard:</b>	<b>This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR1910.1200.</b>		
<b>Pesticide Registration:</b>	This product is a pesticide registered by the Environmental Protection Agency (EPA) and is subject to certain FIFRA labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.		
<b>EPA Reg. No.:</b>	19713-526-54705		
<b>FIFRA Label Signal Word:</b>	CAUTION		
<b>FIFRA Label Information:</b>	KEEP OUT OF REACH OF CHILDREN		
<b>FIFRA Label Information:</b>	Hazards to Humans and Domestic Animals		
	CAUTION: Harmful if absorbed through skin, if inhaled or if swallowed. Causes moderate eye irritation. Avoid breathing of spray mist. Avoid contact with skin, eyes and clothing.		
<b>EPCRA SARA Title III Classification:</b>			
<b>Section 302:</b>	Extremely Hazardous Substance Notification:		This material is not known to contain any Extremely Hazardous Substances.
<b>Sections 311 and 312:</b>	Immediate (Acute) Health Hazard:	Yes	
	Delayed (Chronic) Health Hazard:	No	
	Fire Hazard:	No	
	Reactive Hazard:	No	
	Sudden Release of Pressure Hazard:	No	
<b>Section 313 Toxic Release Inventory (TRI):</b>	This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.		
<b>CERCLA/SARA 304 Reportable Quantity (RQ):</b>	Not listed / Not available		
<b>RCRA Hazardous Waste Classification (40 CFR 261):</b>	Not listed / Not available		
<b>US EPA Toxic Substances Control Act (TSCA):</b>	All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.		
<b>California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):</b>	Glyphosate	Listed as causing:	Cancer
		Listing date:	07/07/2017
		Listing basis:	LC-IARC

## SECTION 16: OTHER INFORMATION

<b>Date Issued:</b> July 14, 2020 DRX-December 9, 2019	Lawn and Garden Products, Inc. PO Box 35000	Phone: 559-499-2100
<b>For all non-emergency questions about this product, please contact:</b>	Fresno, CA 93745-5000	Website: <a href="http://www.montereylawngarden.com">www.montereylawngarden.com</a> or <a href="mailto:info@montereylawngarden.com">info@montereylawngarden.com</a>

Lawn and Garden Products, Inc. recommends that each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for

***Date Issued: 7/14/2020***  
***Supersedes: 3/24/2020***

use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific SDSs, we are not and cannot be responsible for SDSs obtained from any source other than ourselves. If you have obtained an SDS from another source or if you are not sure that the SDS you have is current, please contact us for the most current version.