

SAFETY DATA SHEET

EMERGENCY CALL: 1-800-222-1222 (POISON CONTROL CENTER)



1. IDENTIFICATION

PRODUCT NAME: RM18™ Fast-Acting Weed & Grass Killer

DESCRIPTION: A liquid herbicide.

EPA Reg. No.: 84009-29

COMPANY IDENTIFICATION:

Ragan & Massey, Inc.

101 Ponchatoula Parkway

Ponchatoula, LA 70454

2. HAZARD IDENTIFICATION

WARNING

Causes eye irritation (H320)

Toxic to aquatic life with long lasting effects (H401+H411)



HAZARD CLASSIFICATION

Health Hazards

Serious eye damage/eye irritation

Category

2B

Other Hazards

Hazardous to the aquatic environment, acute

Hazardous to the aquatic environment, long-term

Category

2

2

HAZARDS NOT REQUIRING CLASSIFICATION

Do not mix or allow this product to come in contact with an oxidizing agent such as potassium permanganate. Hazardous chemical reaction may occur.

PRECAUTIONARY STATEMENTS

Wash hands thoroughly after handling. (P264)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

If eye irritation persists: Get medical advice / attention. (P337+P313)

Avoid release to the environment in a manner not in accordance with the product label. (P273)

Collect spillage. (P391)

Dispose of contents / container in accordance with local regulations. Refer to the product label for specific disposal instructions. (P501)

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Common Name</u>	<u>Chemical Name</u>	<u>CAS #</u>	<u>Composition</u>
Glyphosate IPA Salt	N-(phosphonomethyl)glycine, isopropylamine salt	38641-94-0	18.00%
Diquat dibromide	6,7-dihydrodipyrido[1,2-a:2',1'-c]pyrazinediium dibromide	85-00-7	00.73%

4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call your poison control center at 1-800-222-1222.

IF IN 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. If eye irritation persists: Get medical advice/attention.

5. FIREFIGHTING MEASURES

Flash Point (PM): N/A

Flammable Limits: Not determined

Fire and Explosion Hazards: None known.

Extinguishing Medium: Water spray, fog, dry foam, or CO₂

Fire Fighting Equipment: Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear.

Fire Fighting Instructions: Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

Hazardous Combustion Products: Oxides of carbon, oxides of nitrogen, oxides of phosphorus, and hydrogen bromide.

NFPA Ratings: Health – 1 / Flammability – 1 / Reactivity - 0

6. ACCIDENTAL RELEASE MEASURES

Spills: Wear appropriate protective gear as described in Section 8 of this document. Dike spill using absorbent or impervious materials such as earth, sand or clay. Collect and contain contaminated absorbent and dike material for disposal. Pump any free liquid into an appropriate closed container. Collect washings for disposal. Decontaminate tools and equipment following cleanup. Large spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

Environmental Precautions: Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

7. HANDLING AND STORAGE

Keep out of reach of children.

Handling: Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Storage: Store in original container only in a safe place away from direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: There is no special requirement when used as recommended. Where engineering controls are indicated by specific use conditions or a potential for excessive exposure, use local exhaust ventilation at the point of generation.

Personal Protective Equipment: No special requirement when used as recommended. If there is significant potential for contact, wear chemical goggles. If repeated or prolonged contact with skin, where chemical resistant gloves.

General: When personal protective equipment is recommended, consult PPE manufactured for the appropriate type of equipment for a given application.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

pH: 4.45

Density: 1.072 g/mL

Solubility: Soluble in water

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Reacts with galvanized steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode.

CHEMICAL STABILITY: This product is stable under normal handling and storage conditions.

INCOMPATIBILITY WITH OTHER MATERIALS: Strong oxidizing agents, galvanized steel, unlined mild steel

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition can produce oxides of carbon, oxides of nitrogen, oxides of phosphorus, and hydrogen bromide.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ORAL TOXICITY (rat LD₅₀): > 5,000 mg/kg

DERMAL TOXICITY (rat LD₅₀): > 5,000 mg/kg

INHALATION TOXICITY (rat LC₅₀): > 2.05 mg/L (4-hour)

EYE IRRITATION: Rabbit – Moderately irritating

SKIN IRRITATION: Rabbit – Slightly irritating

SKIN SENSITIZATION: Guinea Pigs - Not a contact sensitizer

CARCINOGENICITY:

EPA: Not Listed

ACGIH: Not Listed

NTP: Not Listed

IARC: Group 2A¹

OSHA: Not Listed

MUTAGENIC TOXICITY: No evidence of mutagenic effects during *in vivo* and *in vitro* assays.

REPRODUCTIVE TOXICITY: Reproductive effects in rats only in the presence of significant maternal toxicity.

12. ECOLOGICAL INFORMATION

This product is toxic to aquatic invertebrates.

The following information is for the active ingredient, Glyphosate acid (13.34% of formulation):

AQUATIC TOXICITY:

Acute freshwater and estuarine/marine fish (96-hr LC ₅₀):	≥ 10 mg a.e./L
Chronic estuarine/marine fish (NOAEC):	≥ 25.7 mg a.e./L
Acute freshwater invertebrates (48-hr EC ₅₀):	53.2 mg a.e./L
Chronic freshwater invertebrates (NOAEC - calculated):	9.22 mg a.e./L
Acute estuarine/marine invertebrates (48-hr EC ₅₀):	40 mg a.e./L
Chronic estuarine/marine invertebrates (NOAEC - calculated):	6.11 mg a.e./L
Duckweed (14-day EC ₅₀):	11.9 mg a.e./L
Green algae (4-day EC ₅₀):	11.4 mg a.e./L

The following information is for the active ingredient, diquat dibromide (0.73% of formulation):

Acute freshwater fish (96-hr LC ₅₀):	0.75 mg /L
Chronic freshwater fish (NOAEC):	0.122 mg/L
Estuarine/marine fish (96-hr LC ₅₀):	51.1 mg/L
Chronic estuarine/marine fish (NOAEC):	3.0 mg/L
Acute freshwater invertebrates (96-hr EC ₅₀):	0.09 mg/L
Chronic freshwater invertebrates (NOAEC):	0.036 mg/L
Acute estuarine/marine invertebrates (96-hr EC ₅₀):	0.42 mg/L
Chronic estuarine/marine invertebrates (NOAEC):	0.052 mg/L
Duckweed (NOAEC):	0.0012 mg/L

¹ Carcinogenicity: Not carcinogenic in rats or mice. Listed as Category 2A by the International Agency for Research on Cancer (IARC) but, in the expert opinion of the Joint Glyphosate Task Force, this classification as a carcinogen is not warranted.

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Refer to the product label for specific container disposal instructions.

14. TRANSPORT INFORMATION

UN Number:	UN3082
Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s. (contains diquat)
Transport Hazard Class:	9
Packing Group:	III
Hazard Zone:	A
Marine Pollutant:	Yes ¹
Hazardous Substance RQ:	None
Labels / Placards:	US-DOT: Class 9 Environmentally Hazardous Substance ² IMDG, IATA: Class 9 Environmentally Hazardous Substance ³
Emergency Guide:	171 (NAERG – North American Emergency Response Guide)
¹ Marine Pollutant Note:	Ground-only shipments are excluded from Marine Pollutant labeling requires as per 49CFR172.101 Appendix B(4). For any shipments involving all or part of the transport by vessel, the shipment must be classified as a Marine Pollutant unless a limited quantity exemption applies (see note 3 below).
² US-DOT Note:	Not regulated for “ground only” shipments.
³ IMDG / IATA Note:	Not regulated when shipped in single or inner packaging ≤1.32 gal. (5 L).

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. 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.

15. REGULATORY INFORMATION

FIFRA –

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. The following is the hazard information as required on the pesticide label:

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

See inside label booklet for additional Precautionary Statements and Directions for Use including Storage and Disposal instructions.

ENVIRONMENTAL HAZARDS

This product is toxic to aquatic invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

PHYSICAL OR CHEMICAL HAZARDS

Do Not Mix or Allow Contact With An Oxidizing Agent. A Hazardous Chemical Reaction May Occur.

15. REGULATORY INFORMATION (CONT.)

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

SARA Title III – Section 302 Extremely Hazardous Substances

Not listed

SARA Title III – Section 311/312 Hazard Categories

Immediate (Acute)

SARA Title III – Section 312 Threshold Planning Quantity

N/A

SARA Title III – Section 313 Reportable Ingredients

None

CERCLA Reportable Quantity (RQ) –

None

CALIFORNIA PROP 65 STATUS –

This product does not contain any chemical known to the state of California to cause cancer or reproductive harm.

CANADA –

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

16. OTHER INFORMATION

DISCLAIMER: THIS INFORMATION IN THIS SDS IS BASED ON DATA AVAILABLE AS OF THE REVISION DATE GIVEN HEREIN, AND BELIEVED TO BE CORRECT. THIS SDS DOES NOT REPLACE OR MODIFY THE EPA-ACCEPTING PRODUCT LABELING. CONTACT RAGAN & MASSEY, INC. TO CONFIRM IF YOU HAVE THE MOST CURRENT SDS. JUDGMENTS AS TO THE SUITABILITY OF THE INFORMATION HEREIN FOR THE INDIVIDUAL'S OWN USE OR PURPOSES IS NECESSARILY THE INDIVIDUAL'S OWN RESPONSIBILITY. ALTHOUGH REASONABLE CARE HAS BEEN TAKEN IN THE PREPARATION OF SUCH INFORMATION, RAGAN & MASSEY, INC. EXTENDS NO WARRANTIES, MAKES NO REPRESENTATIONS, AND ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY OR SUITABILITY OF SUCH INFORMATION FOR APPLICATION TO THE INDIVIDUAL'S PURPOSES OR THE CONSEQUENCES OF ITS USE.

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