SAFETY DATA SHEET

EMERGENCY CALL: 1-800-424-9300 (CHEMTREC)

1. IDENTIFICATION

PRODUCT NAME: RM43 Total Vegetation Control
DESCRIPTION: A liquid herbicide.
EPA Reg. No.: 84009-3

COMPANY IDENTIFICATION:
Ragan & Massey, Inc.
101 Ponchatoula Parkway
Ponchatoula, LA 70454

2. HAZARD IDENTIFICATION

DANGER
Causes serious eye damage (H318)

Very toxic to aquatic life (H400)

GHS Toxicity Classifications

Eye damage/irritation	Cat. 1
Hazardous to the aquatic environment, acute hazard	Cat. 1

3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS #	Composition
Glyphosate IPA Salt	N-(phosphonomethyl)glycine, isopropylamine salt	38641-94-0	43.68%
Imazapyr IPA Salt	2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)nicotinic acid, isopropylamine salt	81510-83-0	00.78%

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 the National Pesticides Information Center (NPIC) at 1-800-858-7378 seven days a week, 6:30 am to 4:30 pm Pacific Time or 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. Immediately call a doctor or poison control center.

5. FIREFIGHTING MEASURES

Flash Point (PM): > 93.3°C (200°F)

Flammable Limits: Not determined

Fire and Explosion Hazards: Product may generate irritating or toxic gasses through thermal decomposition.

Extinguishing Medium: Water spray**,** fog, dry foam, or CO_2

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: Hydrogen chloride, oxides of carbon, nitrogen and phosphorus.

NFPA Ratings: Health – 3 / 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. Larges 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: Causes irreversible eye damage. Harmful is swallowed. Do not get in eyes or on clothing. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove Personal Protective Equipment (PPE) immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Storage: Store product in original container in a safe place and protect from freezing. Do not contaminate water, food, or feed by storage or disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: 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: Wear long-sleeved shirt, long pants, shoes plus socks, and protective eyewear (goggles, face shield, or safety glasses). If mixing or loading or using handheld equipment, chemical-resistant gloves should also be worn.

General: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Clear, red liquid
Odor: Slight odor
pH: 4.22
Relative Density: 1.171 g/mL
Solubility: Soluble

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Excessive heat. Do not store neat heat or flame.

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

INCOMPATIBILITY WITH OTHER MATERIALS: Strong oxidizing agents: bases and acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Heat and fire may result in thermal decomposition and the release of hydrogen chloride and oxides of carbon, nitrogen, and phosphorus.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ORAL TOXICITY (rat LD_{50}): > 5,000 mg/kg

DERMAL TOXICITY (rat LD_{50}): > 5,000 mg/kg

INHALATION TOXICITY (rat LC_{50}): > 2.06 mg/L (4-hour)

EYE IRRITATION: Rabbit – Moderately irritating with corneal involvement persisting for 21 days

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 2A[1] **OSHA:** Not Listed

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

REPRODUCTIVE TOXICITY: Not known to cause reproductive or birth defects at normal exposure levels.

12. ECOLOGICAL INFORMATION

This product is toxic to plants. Drift and run-off may be hazardous to plants in water adjacent to treated areas.

The following information is for the active ingredient, Glyphosate acid:

AQUATIC TOXICITY:
Rainbow Trout (96-hr LC_{50}): 786 mg/L
Bluegill (96-hr LC_{50}): 120 mg/L
Diatoms (96-hr EC_{50}): 1.3 mg/L
Duckweed (14-day EC_{50}): 25.5 mg/L

AVIAN TOXICITY:
Bobwhite Quail (LC_{50}): > 4,500 mg/kg
Mallard Duck (LC_{50}): > 4,500 mg/kg

The following information is for the active ingredient, Imazapyr:

AQUATIC TOXICITY:
Rainbow Trout (96-hr LC_{50}): >100 mg/L
Bluegill (96-hr LC_{50}): >100 mg/L
Diatoms (96-hr EC_{50}): 1.3 mg/L
Green Algae (7-day EC_{50}): 71 mg/L

AVIAN TOXICITY:
Bobwhite Quail (LC_{50}): > 2,150 mg/kg
Mallard Duck (LC_{50}): > 2,150 mg/kg

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Pesticide wastes may be acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a vioilation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

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

14. TRANSPORT INFORMATION

Follow the precautions indicated in Section 7: HANDLING AND STORAGE of this SDS.
DOT: Non Regulated – See 49 CFR 173.132(b)(3)
IMDG: UN3082, Environmentally Hazardous substances, liquid, n.o.s., 9, PG III, Marine Pollutant
IATA: UN3082, Environmentally Hazardous substances, liquid, n.o.s., 9, PG III, Marine Pollutant

[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.

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

DANGER. Corrosive. Causes irreversible eye damage. Harmful if swallowed. Harmful if absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin.

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

ENVIRONMENTAL HAZARDS

This product is toxic to plants. Drift and run-off may be hazardous to plants in water adjacent to treated areas. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. See Directions for Use for additional precautions and requirements.

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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