

Date Issued: 14 September 2022

SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **REGALIA® Rx** (lot code format 106-O5-XXXX-XX)

REGISTRATION NO: 84059-3 PCP 32250

MANUFACTURER: Marrone Bio Innovations

ADDRESS: 1540 Drew Ave., Davis CA, 95618

EMERGENCY PHONE: INFOTRAC Chemical Response System

US and Canada 1-800-535-5053 (24 hours) International 1-352-323-3500 (24 hours)

OTHER CALLS: Marrone Bio Innovations 530-750-2800 (9am to 5 pm PST)

FAX PHONE: Marrone Bio Innovations 530-750-2808

PRODUCT USE: Bio-based fungicide

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Causes eye irritation Harmful to aquatic life

HAZARD SYMBOLS:

Pictogram (None)

Signal Word Warning

HAZARD STATEMENTS

H320 Causes eye irritation

ENVIRONMENTAL HZAZARD STATEMENT

H401 Toxic to aquatic life.

PRECAUTIONARY STATEMENTS.

P264 Wash skin after handling.

P273 Avoid release to the environment.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P312 Call a doctor if you feel unwell

P337 + P313 If eye irritation persists: seek medical advice/attention.

P501 Dispose of in accordance with all applicable local, regional, national, and

international regulations.

POTENTIAL ROUTES OF ENTRY: Oral, eye, and inhalation.



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CARCINOGENICITY:

OSHA: Not listed ACGIH: Not listed NTP: Not listed. IARC: Not listed

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Synonym MBI-106-O5

<u>INGREDIENT:</u> <u>CAS NO</u> <u>% WT</u>

Reynoutria spp. Extract None 5 No exposure limits established

1-hexanol 111-27-3 0 to 2

Water and other inert ingredients; USDA

National Organic Program Compliant

Varies 93

SECTION 4: FIRST AID MEASURES

EYES: Hold eye open and rinse slowly and gently with water for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Do not use an eye ointment. Call poison control center or doctor for treatment advice.

SKIN: Remove contaminated clothing. Rinse skin immediately with plenty of water for at least 15-20 minutes. Call a poison control center or doctor for treatment advice.

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 by a poison control center or physician. Do not give anything by mouth to an unconscious person.

INHALATION: Remove person to fresh air. If the 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 treatment.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, (% BY VOLUME)

UPPER: Not applicable. LOWER: Not applicable.

IGNITABILITY: 205 °F or 96 °C

METHOD USED: METHOD USED: SW 1010

AUTOIGNITION TEMPERATURE: Not applicable.

EXTINGUISHING MEDIA: Use Foam, Carbon Dioxide, or Dry Chemical extinguishers.

SPECIAL FIRE FIGHTING PROCEDURES: None



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UNUSUAL FIRE AND EXPLOSION HAZARDS: None

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide, smoke, fumes, and hydrocarbons and terpenes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Wear suitable clothing such as eye protection, long-sleeved shirt, pants and shoes with socks. If spilled, contain - prevent run off into drains and waterways. Absorb liquid with an inert absorbent material. Seal absorbent material in a closed labeled container and dispose of in accordance with local ordinances.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Store in the closed, original container in a well-ventilated area out of direct sunlight. Keep containers closed when not in use. Empty container completely and dispose of in accordance with all applicable federal, state and local environmental regulations.

OTHER PRECAUTIONS: No special precautions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Spill controls should be provided for working with large quantities.

VENTILATION: No TLV assigned. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and aerosols below the exposure levels. Ensure that eyewash stations and safety showers are proximal to the work-station location.

RESPIRATORY PROTECTION: Be sure to use an approved/certified respirator or equivalent.

EYE PROTECTION: Safety goggles or glasses with side shields advisable when handling liquid.

SKIN PROTECTION: Wear gloves made of Latex or other impervious material.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Clothing to prevent prolonged skin contact as needed such as long-sleeved shirt, long pants and shoes with socks.

WORK HYGIENIC PRACTICES: Wash any contamination from skin or eyes immediately. Wash hands and exposed skin before eating, drinking, smoking, after work, or using the toilet.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

COLOR: Brown to reddish-brown

ODOR: Straw-like; spicy

pH: 5 to 8
DENSITY: 1 g/ml



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SOLUBILITY IN WATER: Miscible in water BOILING POINT/RANGE: Not determined FREEZING/MELTING POINT: Not determined FLASH POINT: Not determined **EVAPORATION RATE:** Not determined Not determined FLAMMABILITY (SOLID. GAS): **UPPER FLAMMABILITY LIMITS:** Not determined LOWER FLAMABILITY LIMITS: Not determined **VAPOR PRESSURE:** Not determined Not determined VAPOR DENSITY: Not determined RELATIVE DENSITY: SOLUBILITY IN OTHER SOLVENTS: Not determined PARTITION COEFFICIENT: Not determined **AUTOIGNITION TEMPERATURE:** Not determined **DECOMPOSITION TEMPERATURE:** Not determined KINEMATIC VISCOSITY: Not determined DYNAMIC VISCOSITY: Not determined **EXPLOSIVE PROPERTIES:** Not determined **OXIDIZING PROPERTIES:** Not determined

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable.

INCOMPATIBILITY (MATERIAL TO AVOID): None known

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None known

HAZARDOUS POLYMERIZATION: Not known to occur CONDITIONS TO AVOID (POLYMERIZATION): None

SECTION 11: TOXICOLOGICAL INFORMATION

WARNING: This product causes eye irritation. This product causes mild skin irritation.

ACUTE ORAL TOXICITY LD₅₀: >5000 mg/kg (rat). Not categorized ACUTE DERMAL TOXICITY LD₅₀: >5000 mg/kg (rabbit). Not categorized ACUTE INHALATION LC₅₀: >5.18 mg/L (rat). Not categorized

EYE IRRITATION: Moderately irritating (rabbit). Category 2B SKIN IRRITATION: Mildly irritating (rabbit). Not categorized SKIN SENSITIZATION: Non-sensitizing (guinea pigs). Not categorized

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to freshwater aquatic life: Fathead minnow (96-hour acute) LC₅₀ > 10.18 mg/L. Category 2

Bees and beneficial organisms: Honey bee (48-hour acute contact toxicity) $LD_{50} > 100 \mu g/bee$



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Testing all beneficial insects, in all situations, mixtures and combinations, is not feasible. Prior to treating entire crop where the release of beneficial insects serve as part of an Integrated Pest Management (IPM) program, consult with an extension specialist, a pest control advisor (PCA) or with the product manufacturer.

Bioconcentration potential: This material is not expected to bioconcentrate in organisms.

SECTION 13: DISPOSAL CONSIDERATIONS

Do not reuse containers. Dispose of in accordance with all applicable federal, state, and local environmental regulations.

SECTION 14: TRANSPORTATION INFORMATION

U.S. DOT: Not Regulated

IATA DGR: Not regulated

IMDG: Not Regulated

Freight Classification: Fungicide. See NMFTA code.

SECTION 15: REGULATORY INFORMATION

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazardous information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

Allowable Tolerances: Residues of Regalia RX are exempted from the requirement of a tolerance when used in accordance with good agricultural practices and label application instructions to agricultural commodities directed on the product label.

INTERNATIONAL REGULATIONS

TSCA: Exempt

U.S. FEDERAL REGULATIONS

CERCLA: Not applicable.

SARA TITLE III HAZARD CLASSIFICATION SECTIONS 311 AND 312:

Immediate (acute) Health:NoneDelayed (chronic) Health:NoneFire:NoneSudden Release of Pressure:NoneReactivity:None

SARA 313: Not determined



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U.S. STATE REGULATIONS: None

US STATE RIGHT-TO-KNOW REGULATIONS:

New Jersey Right To Know Components CAS No.
Propylene glycol 57-55-6
1-hexanol 111-27-3

Pennsylvania Right To Know Components CAS No.
Propylene glycol 57-55-6
1-hexanol 111-27-3

California Proposition 65 This product does not contain any chemicals known to State

of California to cause cancer, birth defects, or any other

reproductive harm.

SECTION 16: OTHER INFORMATION

SPECIAL HAZARDS: Not Determined

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Revision Note: Updated composition percentage range

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