

SAFETY DATA SHEET**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: **REGALIA® Rx**

REGISTRATION NO: 84059-3

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 (Category 2B)
Mild skin irritation (Category 3)
Harmful if inhaled (Category 4)
Harmful to aquatic life (Category 3)

HAZARD SYMBOLS:

Pictogram



Signal Word

Warning**HAZARD STATEMENTS**

H316 Causes mild skin irritation
H320 Causes eye irritation
H332 Harmful if inhaled
H402 Harmful to aquatic life.

PRECAUTIONARY STATEMENTS.

P261 Avoid breathing dust, fumes, gas, mist, vapors or spray
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release into the environment.
P304 + P340 **IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a doctor if you feel unwell.

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AUTOIGNITION TEMPERATURE: Not applicable.

NFPA HAZARD CLASSIFICATION

HEALTH: 1

FLAMMABILITY: 1

REACTIVITY: 0

HMS HAZARD CLASSIFICATION

HEALTH: 1

FLAMMABILITY: 1

REACTIVITY: 0

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

SPECIAL FIRE FIGHTING PROCEDURES: None

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: Vapor respirator. 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.

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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
ODOR:	Straw-like; spicy
pH:	5 to 8
DENSITY:	0.9 to 1.3 g/ml
SOLUBILITY IN WATER:	Miscible in water
BOILING POINT/RANGE:	Not determined
FREEZING/MELTING POINT:	Not determined
FLASH POINT:	Not determined
EVAPORATION RATE:	Not determined
FLAMMABILITY (SOLID, GAS):	Not determined
UPPER FLAMMABILITY LIMITS:	Not determined
LOWER FLAMMABILITY LIMITS:	Not determined
VAPOR PRESSURE:	Not determined
VAPOR DENSITY:	Not determined
RELATIVE DENSITY:	Not determined
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 LD ₅₀ :	>5000 mg/kg (rat). Not categorized
ACUTE DERMAL TOXICITY LD ₅₀ :	>5000 mg/kg (rabbit). Not categorized
ACUTE INHALATION LC ₅₀ :	>2.11 mg/L (rat). Category 4
EYE IRRITATION:	Minimally irritating (rabbit). Category 2B
SKIN IRRITATION:	Slightly irritating (rabbit). Category 3
SKIN SENSITIZATION:	Non-sensitizing (guinea pigs). Not categorized

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This product poses acute toxicity to freshwater fish.

Avian Acute Oral Toxicity: Bobwhite quail. LD₅₀ >2000 mg/kg-bw. Non-toxic. Category 5

Toxicity to freshwater aquatic life: Fathead minnow (96-hour acute) LC₅₀ > 10.18 mg/L. Category 3
Rainbow trout (96-hour) EC₅₀ = 17.885 mg/L Category 3
Daphnia magna (48-hour acute) EC₅₀ = 50.0 mg/L AI. Category 3
Freshwater algae (72-hour acute) EC₅₀ = 54.61 mg/L Category 3

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 wash water or rinsate.

Minimize drift from the application site and contact people, structures people occupy at any time and the associated property, parks and recreation areas, non-target crops, aquatic and wetland areas, woodlands, pastures, rangelands, or animals.

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.

CAUTION

Causes moderate eye irritation

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INTERNATIONAL REGULATIONS

TSCA: Exempt

U.S. FEDERAL REGULATIONS

CERCLA: Not applicable.

SARA TITLE III HAZARD CLASSIFICATION SECTIONS 311 AND 312:

Immediate (acute) Health: None

Delayed (chronic) Health: None

Fire: None

Sudden Release of Pressure: None

Reactivity: None

SARA 313: Not determined

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.
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SECTION 16: OTHER INFORMATION

SPECIAL HAZARDS: Not Determined

Date Issued:	October 12 2015
Revision Date:	3
Revision Note:	Update composition, H and P statements, right to know

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