

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

PRODUCT NAME: **Regalia**® (lot code formats 106-O5-XXXXXX-XX, 1065-XXXX-XX, LXXXX-XXY, LXXXX-XXXY)

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  
Harmful to aquatic life

**HAZARD SYMBOLS**

Pictogram (None)

Signal Word **Warning**

**HAZARD STATEMENTS**

H320 Causes eye irritation  
H401 Toxic to aquatic life.

**PRECAUTIONARY STATEMENTS.**

P264 Wash skin thoroughly after handling.  
P273 Avoid release into 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: Get medical 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**

 Synonyms: **MBI-106-O5-SH, MBI-106-O5-HF**

<u>COMPONENT</u>	<u>CAS NUMBER</u>	<u>PERCENT BY WEIGHT (%)</u>
<i>Reynoutria spp.</i> Extract	N/A	5
Other (inert ingredients)	Several (Not applicable)	95

**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

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None

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

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**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.

**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

<b>PHYSICAL STATE:</b>	Liquid
<b>COLOR:</b>	Brown to reddish brown
<b>ODOR:</b>	Straw-like; spicy
<b>pH:</b>	5 to 7
<b>DENSITY:</b>	1 g/mL
<b>SOLUBILITY IN WATER:</b>	Miscible in water
<b>BOILING POINT/RANGE:</b>	Not determined
<b>FREEZING/MELTING POINT:</b>	Not determined
<b>FLASH POINT:</b>	Not determined
<b>EVAPORATION RATE:</b>	Not determined
<b>FLAMMABILITY (SOLID. GAS):</b>	Not determined
<b>UPPER FLAMMABILITY LIMITS:</b>	Not determined
<b>LOWER FLAMABILITY LIMITS:</b>	Not determined

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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 <sub>50</sub> :	>5000 mg/kg (rat). Not categorized
ACUTE DERMAL TOXICITY LD <sub>50</sub> :	>5000 mg/kg (rabbit). Not categorized
ACUTE INHALATION LC <sub>50</sub> :	>5.18 mg/L (rat). Not categorized
EYE IRRITATION:	Minimally irritating (rabbit). Category 2B
SKIN IRRITATION:	Mildly irritating (rabbit). Not categorized
SKIN SENSITIZATION:	Non-sensitizing (guinea pigs). Not categorized

**SECTION 12: ECOLOGICAL INFORMATION**

Bees and beneficial organisms: Honey bee (48-hour acute contact toxicity) LD<sub>50</sub> > 100 µg/ bee

Toxicity to freshwater aquatic life: Fathead minnow (96-hour acute) LC<sub>50</sub> > 10.18 mg/L. Category 2

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.

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<b>SECTION 14: TRANSPORTATION INFORMATION</b>
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U.S. DOT: Not Regulated

IATA DGR: Not regulated

IMDG: Not Regulated

Freight Classification: Fungicide. See NMFTA code.

<b>SECTION 15: REGULATORY INFORMATION</b>
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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

**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**

Propylene glycol	CAS No.	57-55-6
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**Pennsylvania Right To Know Components**

Propylene glycol	CAS No.	57-55-6
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**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
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## NFPA HAZARD CLASSIFICATION

HEALTH: 1

FLAMMABILITY: 1

REACTIVITY: 0

## HMIS HAZARD CLASSIFICATION

HEALTH: 1

FLAMMABILITY: 1

REACTIVITY: 0

SPECIAL HAZARDS: Not Determined

Date Issued:

08 Feb 2017

Revision Date:

6

Revision Note:

Update lot code format, harmonize to other product line documents throughout.

DISCLAIMER: IN NO EVENT SHALL MARRONE BIO INNOVATIONS BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES. THE DATA PROVIDED IS FOR GENERAL INFORMATION ONLY AND IS NOT INTENDED AS A COMPREHENSIVE GUIDE CONCERNING HAZARDS THAT MAY BE ASSOCIATED WITH THIS PRODUCT. USER ASSUMES ALL RESPONSIBILITY FOR FOLLOWING PROPER SAFETY PROTOCOL AND CONSULTING TRAINED PERSONNEL FOR CONTROL AND CONTAINMENT.