

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

PRODUCT NAME: **Regalia<sup>®</sup> Maxx**

USEPA REGISTRATION NO: 84059-6

CANADA PCP NO: 30199

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**

**HEALTH HAZARD STATEMENT.**

H320 Causes eye irritation.

**ENVIRONMENTAL HAZARD 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.

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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.

CARCINOGENICITY:

OSHA: Not listed

ACGIH: Not listed

NTP: Not listed.

IARC: Not listed

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

SYNONYMS: MBI-106-O20; Reysana<sup>™</sup>; Regalia Maxx 20 SC; Regalia 20

ACTIVE INGREDIENT:

*Reynoutria sachalinensis* extract

<u>COMPONENT</u>	<u>CAS NUMBER</u>	<u>PERCENT BY WEIGHT (%)</u>
<i>Reynoutria</i> spp. Plant Extract (No exposure limit established)	N/A	20
Sodium lauryl sulfate	151-21-3	< 8
1-Hexanol	111-27-3	< 9
Potassium sorbate	24634-61-5	< 8
Other (inert ingredients), USDA National Organic Program Compliant	Several (Not applicable)	> 55

#### 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.

**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.

**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.

#### SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, (% BY VOLUME)

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UPPER: Not applicable.  
LOWER: Not applicable.

IGNITABILITY: 205 °F or 96 °C

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**

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

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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
SOLUBILITY IN WATER:	Miscible in water
BOILING POINT/RANGE:	Not determined
FREEZING/MELTING POINT:	Not determined
FLASH POINT:	Not applicable
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 applicable
DECOMPOSITION TEMPERATURE:	Not determined
KINEMATIC VISCOSITY:	Not determined
DYNAMIC VISCOSITY:	Not determined
EXPLOSIVE PROPERTIES:	Not applicable
OXIDIZING PROPERTIES:	Not applicable

**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 may be harmful if swallowed. This product may be harmful in contact with skin. This product may be harmful if inhaled.

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ACUTE ORAL TOXICITY LD <sub>50</sub> :	>5000 mg/kg (rat). Not categorized.
ACUTE DERMAL TOXICITY LD <sub>50</sub> :	>5000 mg/kg (rat). Not categorized.
ACUTE INHALATION LC <sub>50</sub> :	>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 toxicity) LC<sub>50</sub> > 10.18 mg/L. Category 2

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

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 local, regional, national, and international 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****INTERNATIONAL REGULATIONS**

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

TSCA: Exempt

**U.S. FEDERAL REGULATIONS**

CERCLA: Not applicable.

SARA TITLE III HAZARD CLASSIFICATION SECTIONS 311 AND 312:

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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.

**SECTION 16: OTHER INFORMATION**

SPECIAL HAZARDS: Not Determined

Date Issued: 14 January 2019  
Revision: 10  
Revision Note: Add Canadian registration number

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