

MATERIAL SAFETY DATA SHEET

Regalia®

MSDS DATE: 09/03/2010

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Regalia®

MANUFACTURER: Marrone Bio Innovations

ADDRESS: 2121 Second Street , Suite B-107 Davis CA, 95618

EMERGENCY PHONE: Info Trac Chemical Response System 800-535-5053 (24 hours)

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

FAX PHONE: 530-750-2808

PRODUCT USE: Biofungicide, EPA Reg. No. 84059-3, USDA-NOP and OMRI Listed

REVISION DATE:: September 3, 2010

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

ACTIVE INGREDIENT:

Reynoutria spp

<u>CAS NO.</u>	<u>% WT</u>	<u>EXPOSURE LIMITS</u>
NONE	5	None Established

OTHER INGREDIENTS:

Water and other inert ingredients; USDA National Organic Program compliant

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Brown Liquid with plant extract and grass-like odor.

POTENTIAL ROUTES OF ENTRY: Eyes, skin, inhalation and ingestion.

POTENTIAL HEALTH EFFECTS: Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (corrosive, permeator). Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or possibly blistering .

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Unknown

CARCINOGENICITY: Unknown, not expected to be carcinogenic.

SECTION 4: FIRST AID MEASURES

EYES: Flush with water for atleast 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Do not use an eye ointment. Call a phycisian if irritation persists.

SKIN: Wash exposed area with soap and water for at least 15 minutes. Remove contaminated clothing. Call a physician if irritation persists.

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INGESTION: Obtain medical attention as soon as possible. Do not induce vomiting. Do not give anything by mouth to an unconscious person.

INHALATION: Remove person to ventilated area and follow normal first aid procedures.

SECTION 5: FIRE-FIGHTING MEASURES

IGNITIBILITY:

F: > 205°F

C: >96°C

METHOD USED: SW 1010

BOILING POINT:

F: Unknown

C: Unknown

NFPA HAZARD CLASSIFICATION

HEALTH: 1

FLAMMABILITY: 1

REACTIVITY: 0

HMIS HAZARD CLASSIFICATION

HEALTH: 1

FLAMMABILITY: 1

REACTIVITY: 0

SPECIAL FIRE FIGHTING PROCEDURES: Use Foam, Carbon Dioxide, or Dry Chemical extinguishers.

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: Consult a specialist before handling this product. 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 dry, cool, well-ventilated area out of direct sunlight. Keep containers closed when not in use

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: Wear eye protection suitable for the application.

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SKIN PROTECTION: Wear chemical resistant gloves appropriate for products.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Wear removable coveralls. Remove contaminated coveralls and any contaminated clothing.

WORK HYGIENIC PRACTICES: Do not smoke or eat when handling this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Brown Liquid

ODOR: Characteristic of plant extracts/ Grass-like odor

Density: 1.12 g/ml

SOLUBILITY IN WATER: Miscible in Water

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None known

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY LD₅₀: >5000 mg/kg (rat)

ACUTE DERMAL TOXICITY LD₅₀: >5000 mg/kg (rat)

ACUTE INHALATION LC₅₀: >2.11 mg/L (rat)

EYE IRRITATION: Mildly irritating (rabbit)

SKIN IRRITATION: Slightly irritating (rabbit)

SKIN SENSITIZATION: Not a sensitizer in guinea pigs

SECTION 12: ECOLOGICAL INFORMATION

No data available.

Do not apply directly to water, 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.

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

D.O.T.: Not regulated

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SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

OSHA: Not Applicable

TSCA: Exempt

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

SECTION 16: OTHER INFORMATION

DISCLAIMER: IN NO EVENT SHALL MARRONE BIO INNOVATION 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 MAYBE ASSOCIATED WITH THIS PRODUCT. USER ASSUMES ALL RESPONSIBILITY FOR FOLLOWING PROPER SAFETY PROTOCOL AND CONSULTING TRAINED PERSONNEL FOR CONTROL AND CONTAINMENT.