

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	Regalia
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)
EMERGENCY PHONE: OTHER CALLS: FAX PHONE:	US and Canada 1-800-535-5053 (24 hours)

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.



P305 + P351 + PP338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses if present, and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs, seek medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical attention.
P501	Dispose of contents/ container to an approved waste disposal plant.

CARCINOGENICITY:

OSHA: Not listed A	ACGIH: Not listed	NTP: Not listed.	IARC: Not listed
SECTION 3: COMPOSIT	ΓΙΟΝ/INFORMATIO	N ON INGREDIENTS	
Synonyms:	MBI-	106-O5-SH, MBI-106-O	95-HF
<u>COMPONENT</u> <i>Reynoutria spp</i> . Extract Other (inert ingredients)	N/A	<u>NUMBER</u> al (Not applicable)	<u>PERCENT BY WEIGHT (%)</u> 5 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 °CMETHOD 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

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

PHYSICAL STATE: COLOR: ODOR: pH: DENSITY: SOLUBILITY IN WATER: Liquid Brown Straw-like; spicy 4.9 to 6.5 1.04 to 1.08 g/mL Miscible in water



BOILING POINT/RANGE:
FREEZING/MELTING POINT:
FLASH POINT:
EVAPORATION RATE:
FLAMMABILITY (SOLID. GAS):
UPPER FLAMMABILITY LIMITS:
LOWER FLAMABILITY LIMITS:
VAPOR PRESSURE:
VAPOR DENSITY:
RELATIVE DENSITY:
SOLUBILITY IN OTHER SOLVENTS:
PARTITION COEFFICIENT:
AUTOIGNITION TEMPERATURE:
DECOMPOSITION TEMPERATURE:
KINEMATIC VISCOSITY:
DYNAMIC VISCOSITY:
EXPLOSIVE PROPERTIES:
OXIDIZING PROPERTIES:

Not determined 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 $LD_{50:}$ >ACUTE DERMAL TOXICITY $LD_{50:}$ >ACUTE INHALATION $LC_{50:}$ >EYE IRRITATION:MSKIN IRRITATION:SSKIN SENSITIZATION:N

>5000 mg/kg (rat). Not categorized
>5000 mg/kg (rabbit). Not categorized
>2.11 mg/L (rat). Category 4
Minimally irritating (rabbit). Category 2B
Slightly irritating (rabbit). Category 3
Non-sensitizing (guinea pigs). Not categorized

SECTION 12: ECOLOGICAL INFORMATION

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) $LC_{50} > 10.18 \text{ mg/L}$. Category 3 Rainbow trout (96-hour) $EC_{50} = 17.885 \text{ mg/L}$ Category 3 Daphnia magna (48-hour acute) $EC_{50} = 50.0 \text{ mg/L}$ AI. Category 3 Freshwater algae (72-hour acute) $EC_{50} = 54.61 \text{ mg/L}$ 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.

Do not allow drift from the manufacturing 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. Minimize drift away from the manufacturing site.

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 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 Page **5** of **6**



U.S. STATE REGULATIONS:	None	
US STATE RIGHT-TO-KNOW REGULATIONS:		
New Jersey Right To Know Components Propylene glycol	CAS No.	57-55-6
Pennsylvania Right To Know Components Propylene glycol	CAS No.	57-55-6
California Proposition 65	*	ny chemicals known to State of h defects, or any other reproductive

SECTION 16: OTHER INFORMATION

NFPA HAZARD CLASSIFICA	ATION
HEALTH: 1	FLAMMABILITY: 1

HMIS HAZARD CLASSIFICATION HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0

REACTIVITY: 0

SPECIAL HAZARDS: Not Determined

Date Issued:	23 Feb 2016
Revision Date:	4
Revision Note:	Update lot code format

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