

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

PRODUCT NAME: **PACESETTER™**

REGISTRATION NO: 84059-21

MANUFACTURER: Marrone Bio Innovations

ADDRESS: 1540 Drew Avenue, 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 530-302-0189

PRODUCT USE: Bio-based plant health product

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.
P312 Call a doctor if you feel unwell
P337 + P313 If eye irritation persists: seek medical advice/attention.

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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

SYNONYM: MBI-106-12, MBI-106 12 %, MBI-106-O12

ACTIVE INGREDIENT:

Reynoutria sachalinensis extract

<u>COMPONENT</u>	<u>CAS NUMBER</u>	<u>PERCENT BY WEIGHT (%)</u>
<i>Reynoutria spp.</i> Plant Extract (No exposure limit established)	N/A	12
Sodium lauryl sulfate	151-21-3	2 to 5
1-Hexanol	111-27-3	0 to 6
Potassium sorbate	24634-61-5	5 to 7
Other (inert ingredients), USDA National Organic Program Compliant	Several (Not applicable)	70 to 81

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, and 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

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METHOD USED: METHOD USED: SW 1010

FLASH POINT: Non-flammable

AUTOIGNITION TEMPERATURE: 410 °C.

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.

ESPIRATORY 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 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:	Red to brown
ODOR:	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:	Non-flammable
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 determined
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.

ACUTE ORAL TOXICITY LD₅₀: >5000 mg/kg (rat). Not categorized.

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ACUTE DERMAL TOXICITY LD ₅₀ :	>5000 mg/kg (rat). Not categorized.
ACUTE INHALATION LC ₅₀ :	>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 ₅₀ > 10.18 mg/L. Category 2
Bees and beneficial organisms:	Honey bee 48-hour acute contact toxicity LD ₅₀ > 100 µg of final product/bee Honey bee 48-hour acute oral toxicity LD ₅₀ > 100 µg of final product/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 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**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

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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
may contain 1-Hexanol	111-27-3

Pennsylvania Right To Know Components:	CAS No.:
Propylene glycol	57-55-6
may contain 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

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Revision:	0
Revision Note:	New document

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