

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

**PRODUCT NAME:** **EMERGEN L™**

**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 liquid agricultural fertilizing compound

**SECTION 2: HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW:****HAZARD SYMBOLS:**

Pictogram: None

Signal Word: **(None)****HAZARD STATEMENT(S):**

None

**PRECAUTIONARY STATEMENTS**

Wash exposed areas thoroughly after handling

Do not eat, drink, or smoke when using this product

IF SWALLOWED: Rinse mouth. Call a doctor if you feel unwell

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical attention.

Dispose of contents/container in accordance with all local/regional/national/international regulations

**POTENTIAL ROUTES OF ENTRY:** Oral, eye, and inhalation, gastrointestinal**CARCINOGENICITY:**

OSHA: Not listed

ACGIH: Not listed

NTP: Not listed.

IARC: Not listed

**SAFETY DATA SHEET****SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Substance/mixture : Mixture

Chemical name : Not available.

Other means of identification : Not available.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

**SECTION 4: FIRST AID MEASURES**

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

EYES: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

SKIN: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

INGESTION: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

INHALATION: Allow victim to breathe fresh air. Allow the victim to rest.

**SECTION 5: FIRE-FIGHTING MEASURES****EXTINGUISHING MEDIA:**

Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media: Do not use a heavy water stream.

**SPECIAL FIRE FIGHTING PROCEDURES:**

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protective equipment for firefighters: Do not enter fire area without proper protective equipment, including respiratory protection.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide.

**NFPA HAZARD CLASSIFICATION**

HEALTH: Unknown

FLAMMABILITY: Unknown

REACTIVITY: Unknown

**SAFETY DATA SHEET****HMIS HAZARD CLASSIFICATION**

HEALTH: Unknown

FLAMMABILITY: Unknown

REACTIVITY: Unknown

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

Emergency procedures: Evacuate unnecessary personnel.

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

Environmental precautions

Do not allow spills to enter drains or waterways.

Prevent product spillage from entering drinking water supplies or streams.

Methods and material for containment and cleaning up

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

**SECTION 7: HANDLING AND STORAGE**

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor

Storage conditions: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products: Strong bases and strong acids

Incompatible materials: Sources of ignition. Direct sunlight.

OTHER PRECAUTIONS: No special precautions.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Control parameters: No additional information available

Personal protective equipment: Avoid all unnecessary exposure.

Hand protection: Wear protective gloves.

Eye protection: Chemical goggles or face shield.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: Wear appropriate mask.

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Other Information: Do not eat, drink or smoke during use.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE:	Liquid
COLOR:	Dark Brown
ODOR:	Characteristic
pH:	8 to 10.5
DENSITY:	1.1 g/mL
SOLUBILITY IN WATER:	Miscible in water
BOILING POINT/RANGE:	Not determined
FREEZING/MELTING POINT:	Not determined
FLASH POINT:	Not determined
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 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**

Reactivity: No additional information available.

Chemical stability: Not established.

Possibility of hazardous reactions Not established.

Conditions to avoid: Direct sunlight. Extremely high or low temperatures.

Incompatible materials: Strong acids. Strong bases.

Hazardous decomposition products: Fume. Carbon monoxide. Carbon dioxide.

**SECTION 11: TOXICOLOGICAL INFORMATION**

ACUTE ORAL TOXICITY LD50 (rat):	No data available
ACUTE DERMAL TOXICITY LD50 (rat):	No data available
ACUTE INHALATION LC50 (rat):	No data available
EYE IRRITATION:	No data available
SKIN IRRITATION:	No data available
SKIN SENSITIZATION:	No data available

**SAFETY DATA SHEET****SECTION 12: ECOLOGICAL INFORMATION**

For terrestrial uses only: 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.

Persistence and degradability: No data is available on the degradability of this product.

Bioaccumulative potential: Not available.

Mobility in soil: No data available.

Other adverse effects: No other adverse environmental effects are expected from this compound.

**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

**SECTION 15: REGULATORY INFORMATION****INTERNATIONAL REGULATIONS**

TSCA: All components of this material are either listed or exempt from listing on the TSCA inventory.

CERCLA Hazardous Substance List: None

SARA 304 Emergency release notification: Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories:

Immediate Hazard – Yes

Delayed Hazard – Yes

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard – No

SARA 302 Extremely hazardous substance: Not listed.

**Other federal regulations**

OSHA Specifically Regulated Substances: Not listed.

SARA 311/312 Hazardous chemical: No

SARA 313 (TRI reporting)

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: None

US State Right-To-Know: None

**SAFETY DATA SHEET****SECTION 16: OTHER INFORMATION**

Date Issued:	28 April 2022
Revision:	1
Revision Note:	Update product name

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