

## Section 1 | Product and Company Identification

### 1.1 Product identifiers

**Product name:** HEPES Medium

**Product Number:** HEPES

**Company:** UTEX Culture Collection of Algae

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Recommended use:** Algal Culture Medium

### 1.3 Details of the supplier of the safety data sheet

**Company:** UTEX Culture Collection of Algae  
205 West 24th Street, Biological Labs 218  
University of Texas at Austin (A6700)  
Austin, TX 78712 USA

**Phone:** (512) 471-4019

**Fax:** (512) 471-0354

## Section 2 | Hazards Identification

### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

### 2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None

## Section 3 | Composition/Information on Ingredients

### 3.1 Mixtures

**Description:** This product contains a mixture of the substances listed along with nonhazardous additions.

**Ingredients:**

Biotin Vitamin Solution

Ca(NO<sub>3</sub>)<sub>2</sub>·4H<sub>2</sub>O (Sigma C 5676)

HEPES buffer (Sigma H-3375)

KCl (Fisher P 217)

MgSO<sub>4</sub>·7H<sub>2</sub>O (Sigma 230391)

Na<sub>2</sub>glycerophosphate.5H<sub>2</sub>O (Sigma G 6501 )

P-IV Metal Solution

Vitamin B12

## Section 4 | First Aid Measures

### 4.1 Description of first aid measures

**General Advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:** Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or section 11

#### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

### Section 5 | Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### 5.2 Special hazards arising from the substance or mixture

No data available

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### 5.4 Further information

No data available

### Section 6 | Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

#### 6.2 Environmental precautions

Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For disposal see section 13.

### Section 7 | Handling and Storage

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): 12: Non Combustible Liquids

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

### Section 8 | Exposure Controls/Personal Protection

#### 8.1 Control parameters

##### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

##### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

##### Personal protective equipment:

**Eye/face protection** Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body protection** Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure** Do not let product enter drains.

## Section 9 | Physical and Chemical Properties

**Physical State:** Liquid

**Color:** Clear

**Odor:** None

**pH:** 6-8

**Salinity:** Not determined

**Boiling Point:** Not determined

**Melting Point:** Not determined

**Flash Point:** Not determined

**Autoigniting Temp:** Not determined

**Explosion Limits:** Not determined

**Vapor Pressure:** Not determined

**Density:** Not determined

**Solubility:** Not determined

## Section 10 | Stability and Reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. -Hydrogen chloride gas, Sodium oxides  
Other decomposition products - No data available  
In the event of fire: see section 5

## Section 11 | Toxicological Information

### 11.1 Information on toxicological effects

**Acute toxicity** No data available

**Inhalation** No data available

**Dermal** No data available

**Skin corrosion/irritation** No data available

**Serious eye damage/eye irritation** No data available

**Respiratory or skin sensitisation** No data available

**Germ cell mutagenicity** No data available

**Carcinogenicity** IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**Reproductive toxicity** No data available

**Specific target organ toxicity - single exposure** No data available

**Specific target organ toxicity - repeated exposure** No data available

**Aspiration hazard** No data available

**Additional Information** RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## Section 12 | Ecological Information

### 12.1 Toxicity

No data available

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### 12.6 Other adverse effects

No data available

## Section 13 | Disposal Considerations

### 13.1 Waste disposal

Dispose of in accordance with applicable state and federal regulations.

## Section 14 | Transport Information

**DOT Classification:** Not a DOT controlled material (United States).

**Hazard Class:** None

## Section 15 | Regulatory Information

**SARA 302 Components** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components** This material does not contain any components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards** No SARA Hazards

**Massachusetts Right To Known Components** No components are subjected to the Massachusetts Right to Know Act.

**California Prop. 65 Components** 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

### HMIS Rating

**Health hazard:** 1

**Flammability:** 0

**Physical hazard:** 0

### NFPA Rating

**Health hazard:** 1

**Fire Hazard:** 0

**Reactivity Hazard:** 0

### Further information

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### Preparation Information

UTEX Culture Collection of Algae

UTEX Staff Scientists

512-471-4019

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