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 of 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(NO3)2·4H2O (Sigma C 5676)
- HEPES buffer (Sigma H-3375)
- KCl (Fisher P 217)
- MgSO4·7H2O (Sigma 230391)
- Na2glycerophosphate•5H2O (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:
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
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
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
Copyright 2018 UTEX Culture Collection of Algae at The University of Texas at Austin. License granted to make unlimited paper copies for internal use only. The above information, to the best of our knowledge, is accurate. UTEX assumes no liability whatsoever for the accuracy or completeness of the information stated above. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards may be described, we cannot guarantee that these are the only hazards that exist.

Preparation Information
UTEX Culture Collection of Algae
UTEX Staff Scientists
512-471-4019

Updated: November 2018