Section 1 | Product and Company Identification

1.1 Product identifiers
   - Product name: MES-Volvox Medium
   - Product Number: MES
   - 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)
     - KCl (Fisher P 217)
     - MES (Sigma M-8250)
     - MgSO4-7H2O (Sigma 230391)
     - Na2glycerophosphate.5H2O (Sigma G 6501)
     - NH4Cl (Fisher A 649-500)
     - 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

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**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

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**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.

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**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.

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**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**
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

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.

Handling and Storage

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

Appropriate engineering controls

Eye/face protection
Safety glasses with side-shields conforming to EN166

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.

Liquid
Clear
None
6-8
Not determined
Not determined
Not determined
Not determined
Not determined
Not determined

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

Updated: November 2018