

## SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

### **1.1 Product identifier**

**Product code** AMS.CSR-ABC-KIT

**Product name** Alginate 3D Cell Culture Kit

**Component name** ①Sodium alginate solution  
②Calcium chloride solution  
③Sodium citrate solution

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

Relevant identified uses of the product: Research use only

SECTION 2: Hazards identification

### **GHS classification and label elements of the product**

#### **2.1 Classification of the substance or mixture**

Not applicable to GHS classification

#### **2.2 Label elements**

No Signal word

#### **PRECAUTIONARY STATEMENT**

Prevention

- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 Wash contaminated parts thoroughly after handling.
- P280 Use personal protective equipment as required.
- P270 Do not eat, drink or smoke when using this product.

Storage

- P410 Protect from sunlight.
- Store at 4°C. Do not freeze.

Disposal

- P501 Dispose of contents/container in accordance with local/national regulation.

SECTION 3: Composition/information on ingredients

### **Substance/Mixture:**

#### **3.2 Mixture**

No hazardous ingredient.

SECTION 4: First aid measures

### **4.1 Descriptions of first-aid measures**

IF INHALED

- Remove person to fresh air and keep comfortable for breathing.
- Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN (or hair)

- Rinse skin with water/shower.
- If skin irritation occurs: Get medical advice/attention.

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 advice/attention.

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## IF SWALLOWED

Rinse mouth.

Call a POISON CENTER or doctor/physician if you feel unwell.

## SECTION 5: Firefighting measures

### **5.1 Extinguishing media**

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

### **5.2 Specific hazards arising from the substance or mixture**

Fire may produce toxic gases.

### **5.3 Advice for firefighters**

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

Wear protective gloves/protective clothing/eye protection/face protection.

## SECTION 6: Accidental release measures

### **6.1 Personnel precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

Wear proper protective equipment.

### **6.2 Environmental precautions**

Avoid leakage to environment.

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

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

## SECTION 7: Handling and storage

### **7.1 Precautions for safe handling**

Preventive measures

(Exposure Control for handling personnel)

Avoid breathing dust/fume/mist/vapors/spray.

Safety treatments

Avoid contact with eyes.

Safety Measures/Incompatibility

Use personal protective equipment as required.

Wash hands et al thoroughly after handling.

When using do not eat, drink or smoke.

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

Recommendation for storage

Store at 4°C. Do not freeze.

Incompatible storage condition

Protect from sunlight.

## SECTION 8: Exposure controls/personal protection

### **8.1 Control parameters**

Adopted value

No ACGIH values available

### **8.2 Exposure controls**

Appropriate engineering controls

Showers, Eyewash stations and Ventilation systems.

Individual protection measures

Respiratory protection

Wear respiratory protection.

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

Skin and body protection

Wear protective clothing.

#### Safety and Health measures

- Take off contaminated clothing and wash it before reuse.
- Do not eat, drink or smoke when using this product.
- Wash hands thoroughly after handling.

### SECTION 9: Physical and chemical properties

#### **9.1 Information on basic physical and chemical properties**

##### Physical properties

Appearance : Liquid

Color : Clear~Light brown (①) Clear (②, ③)

Odor : None

pH : 6.0~8.0

##### Phase change temperature

Initial Boiling Point/Boiling point data N.A.

Boiling range data N.A.

Melting point/Freezing point data N.A.

Decomposition temperature data N.A.

Flash point data N.A.

Auto-ignition temperature data N.A.

Vapor pressure data N.A.

Vapor density data N.A.

Specific gravity/Density data N.A.

Solubility in water : Soluble

n-Octanol /water partition coefficient data N.A.

### SECTION 10: Stability and reactivity

#### **10.2 Chemical stability**

Stable under normal storage/handling conditions.

#### **10.4 Materials to avoid**

Strong oxidizing agent, Sunlight, heat (①-③) Strong acid (③)

#### **10.6 Hazardous decomposition products**

CO, CO<sub>2</sub> (①) HCl, Calcium oxide (②) CO, CO<sub>2</sub>, Halogens (③)

### SECTION 11: Toxicological information

#### **11.1 Information on toxicological effects**

No Acute toxicity data available

No Irritant properties data available

No Allergenic and sensitizing effects data available

No Mutagenic effects data available

No Carcinogenic effects data available

No Teratogenic effects data available

No reproductive toxicity data available

No STOT-single/repeated exposure data available

No Aspiration hazard data available

### SECTION 12: Ecological information

#### **12.1 Toxicity**

No Aquatic toxicity data available

Water solubility

(Calcium chloride)

74.5 g/100 ml (20 °C) (ICSC, 2012)

(Trisodium Citrate)

42.5 g/100 ml (25 °C) (ICSC, 2003)

No Persistence and degradability data available

No Bioaccumulative potential data available

No Mobility in soil data available

Ozone depleting chemical data not available

## SECTION 13: Disposal considerations

### **13.1 Waste treatment methods**

Dispose of contents/container in accordance with local/national regulation.

## SECTION 14: Transport information

UN No, UN CLASS

Not applicable to UN NO.

### **14.6 Special precautions for user**

Not classified as dangerous cargo.

## SECTION 15: Regulatory information

### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

US Major regulations

TSCA

Sodium Alginate; Calcium chloride; Trisodium Citrate

## SECTION 16: Other information

The product is not applicable to GHS classifications.

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 19th edit., 2015 UN Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012) 2012 EMERGENCY RESPONSE GUIDEBOOK(US DOT) 2017 TLVs and BEIs. (ACGIH)  
<http://monographs.iarc.fr/ENG/Classification/index.php>  
 Supplier's data/information

General Disclaimer

This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. It is advised to make their own tests to determinate the safety and suitability of each such product or combination for their own purposes.

**End of Safety Data Sheet**

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