

# Material Safety Data Sheet

Version GHS 5.1  
Revision date : 01/5/2018

## 1 . PRODUCT & COMPANY IDENTIFICATION

**Product Name** : Collagenase/Hyaluronidase (10X) in DMEM  
**Product Cat No** : CA094  
**CAS No** : None  
**Manufacturer/Supplier** : GenDEPOT LLC  
PO Box 454  
Barker, Tx 77413  
Emergency Phone : 866.417.0078  
Fax : 281-579-6876

## 2 . HAZARD IDENTIFICATION

### Emergency Overview

#### GHS Classification

No hazards are expected from using this product.

This product is not regulated under the United Nations Globally Harmonized System for the Classification and Labeling of Hazardous Chemicals (GHS) 2006 version; European Directive 67/648/EEC; and U.S OSHA 29 CFR 1910.1200 Hazard Communication Standard. Although a (M)SDS is not required, this document is offered as a service to customers who handle or might come in contact with this product and would like guidance.

#### GHS Label elements, including precautionary statements

Pictogram none

Signal word none

Hazard statement(s) none

Precautionary statement(s) none

#### Potential Health Effects

Inhalation : May be harmful if inhaled, Causes respiratory tract irritation  
Skin : May be harmful if absorbed through skin. Cause skin irritation  
Eyes : Causes eye irritation  
Ingestion : May be harmful if swallowed.

## 3 . COMPOSITION/INFORMATION ON INGREDIENT

No ingredients are hazardous according to OSHA criteria.  
No components need to be disclosed according to the applicable regulations.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no 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.**  
**Occupational exposure limits, if available, are listed in Section 8.**

## 4 . FIRST AID MEASURES

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Inhalation:** 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 :** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

## 5 . FIREFIGHTING MEASURES

**Suitable extinguishing media:** For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

**Special protective equipment for firefighters:** Wear self contained breathing apparatus for fire fighting if necessary.

**Hazardous combustion products:** no data available

**Further information:** Use water spray to cool unopened containers.

## 6 . ACCIDENTAL RELEASE MEASURES

**Personal precaution:** Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Environmental precaution:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods and materials for contaminant and cleaning up:** Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

## 7 . HANDLING AND STORAGE

**Precaution for safe handling:** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

**Condition for safe storage:** Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 °C

## 8 . EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Ferric nitrate nonahydrate CAS NO 7782-61-8  
USA. ACGIH Threshold Limit Values(TLV) , TWA 1 mg/m<sup>3</sup>  
Upper Respiratory Tract & skin irritation varies

USA. OSHA—TABLE Z-1 limits for Air contaminants— 1910.1000  
TWA 1 mg/m<sup>3</sup>

USA. NIOSH Recommended Exposure Limits  
TWA 1 mg/m<sup>3</sup>

### Personal protective equipment:

**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).

**Hand 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.

**Eye 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 and 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. Complete suit protecting against chemicals.

## 9 . PHYSICAL AND CHEMICAL PROPERTIES

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

### Appearance:

Form	liquid
Color	Red

### Safety data:

pH	7.0– 7.6
Melting point	no data available
Freezing point	no data available
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Auto-ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapor pressure	no data available
Density	no data available
Water solubility	Easily soluble in water
Partition coefficient: n-octanol/water	no data available
Relative vapor density	no data available
Odor	odorless
Odor threshold	no data available
Evaporation rate	no data available

## 10 . STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

no data available.

### Condition to avoid

no data available..

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

no data available

## 11 . TOXICOLOGICAL INFORMATON

### Acute Toxicity

no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

### Mutagenicity (Germ cell mutagenicity)

no data available

### Carcinogenicity

no data available

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 probable, possible or confirmed human carcinogen by ACGIH.

NTP : 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 NTP.

OSHA : 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 OSHA.

### Reproductive toxicity

no data available

### Teratogenicity

no data available

### Specific target organ toxicity— single exposure (GHS)

no data available

### Specific target organ toxicity— repeated exposure (GHS)

no data available

### Aspiration hazard

no data available

### Potential health effects

<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. Causes skin irritation.
<b>Eyes</b>	Causes eye irritation

### Synergistic effects

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.

Stomach - Irregularities - Based on Human Evidence (Magnesium sulphate)

## 12 . ECOLOGICAL INFORMATION

### Toxicity

no data available

### Persistence and degradability

no data available

### Bioaccumulative potential

no data available

### Mobility in soil

no data available

### PBT and vPvB assessment

no data available

### Other adverse effect

no data available

## 13 . DISPOSAL CONSIDERATIONS

### Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

### Contaminated packaging

Dispose of as unused product.

## 14 . TRANSPORT INFORMATION

### DOT(US)

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

## 15 . REGULATORY INFORMATION

### United States

HCS Classification : Non Hazard

TSCA 8(a) IUR exempt/Partial exemption : not determined  
 United States Inventory (TSCA 8b) : not determined  
 SARA 302/304/311/312 extremely hazardous substances :  
     No products were found  
 SARA 302/304 emergency planning and notification:  
     No products were found  
 SARA 302/304/311/312 hazardous chemicals : No SARA hazard  
 SARA 311/312 Hazard Identification :  
 Acute Health Hazard, Chronic Health Hazard

Clean Air Act Section 112(b) : not listed  
 Hazardous air pollutants (HAPs)

Clean Air Act Section 602 : not listed  
 Class I substances

Clean Air Act Section 602 : not listed  
 Class II substances

DEA List I Chemicals : not listed  
 (Precursor chemicals)

DEA List II Chemicals : not listed  
 (Essential chemicals)

### States Regulation

Massachusetts : The following components are listed - None  
 New York : The following components are listed - None  
 New Jersey : The following components are listed  
     Water CAS No 7558-79-4  
 Pennsylvania : The following components are listed  
     Disodium hydrogenorthophosphate CAS No 7558-79-4  
     Water CAS No 773-18-5

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.

### International Regulation

**Australia inventory (AICS):** Not determined.  
**China inventory (IECSC):** All components are listed or exempted.  
**Japan inventory:** Not determined.  
**Korea inventory:** All components are listed or exempted.  
**Malaysia Inventory (EHS Register):** Not determined.  
**New Zealand Inventory of Chemicals (NZIoC):** Not determined.  
**Philippines inventory (PICCS):** Not determined.  
**Taiwan inventory (CSNN):** Not determined.

## 16 . OTHER INFORMATION

### HIMS Rating:

Health hazard : 1  
 Chronic Health Hazard : \*  
 Flammability : 0  
 Physical hazards: 0

### NFPA Rating:

Health Hazard: 0  
 Fire: 0  
 Reactivity Hazard: 0

This compound is sold only for research use by personnel familiar chemicals and who are well trained in good laboratory habits, such as avoiding spills, keeping hands clean at all times and no rubbing eyes with working in the laboratory.

This solution is sold only in microliter quantities for use in life sciences research. No other use is intended. And any other use may involve substantive hazards.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish or legally valid contractual relationship. GenDEPOT LLC, shall not be held liable for any damage resulting from handling of or from with above product. The burden of safe use of this material rests entirely with the user.

Since the conditions of handling, storage and disposal of this material are beyond our control, it is the responsibility of the user to determine whether the material is fit for a particular purpose and/or suitable for the user's method of use or application, and to determine safe conditions for use of the material, and to assume full responsibility for loss, injury and expense arising out of or in connection with the use of material. NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, REGARDING THE MATERIAL DESCRIBED HEREIN SHALL BE CREATED BY OR INFERRED FROM ANY STATEMENT OR OMISSION FROM THIS MSDS.

Various government agencies and local authorities may have general or specific regulations applicable to the material which may not be covered in this MSDS. It is sole responsibility of the user to examine and confirm for its full compliance with any such regulations.

When the revision of this MSDS is received, please dispose of the old one.

Department issuing MSDS:  
 GenDEPOT LLC  
 Safety Department