

# Material Safety Data Sheet

Version GHS 5.1  
Revision date : 01/5/2018

## 1 . PRODUCT & COMPANY IDENTIFICATION

**Product Name :** Recombinant Human bone Morphogenetic protein-4

**Product Cat No :** CC021

**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

Not a hazardous substance or mixture

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

#### GHS Label elements, including precautionary statements

Pictogram none

Signal word none

Hazard statement(s) none

Precautionary statement(s) none

#### Potential Health Effects

Inhalation : No data available

Skin : No data available

Eyes : No data available

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

## 3 . COMPOSITION/INFORMATION ON INGREDIENT

**Synonyms :** BMP4, ZYME, BMP2B, BMP2B1

Substances: 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.

## 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 :** Flush eyes with water as a precaution. Consult a physician.

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

## 5 . FIREFIGHTING MEASURES

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

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

**Hazardous combustion products:** Nature of decomposition products not known.

**Further information:** No data available.

## 6 . ACCIDENTAL RELEASE MEASURES

**Personal precaution:** Avoid dust formation, Avoid breathing vapor's, mist or gas.

**Environmental precaution:** Do not let product enter drains.

**Methods and materials for contaminant and cleaning up:** Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7 . HANDLING AND STORAGE

**Precaution for safe handling:** Provide appropriate exhaust ventilation at places where dust is formed.

**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

**Components with workplace control parameters:** Contains no substances with occupational exposure limit values.

### Exposure controls

**Appropriate engineering controls:** General industrial hygiene practice.

### Personal protective equipment:

**Respiratory protection:** Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dusts masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Eye protection:** Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body 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.

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the

## 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

**Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder

### Safety data:

pH	no data available
Appearance	Form: Sterile Filtered White lyophilize (freeze-dried) powder
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
Evaporation rate	no data available
Flammability	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	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapor density	no data available
Decomposition temperature	no data available
Odor	no data available
Odor threshold	no data available
Evaporation rate	no data available
Viscosity	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

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 sensitization

no data available

### Mutagenicity (Germ cell mutagenicity)

### 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 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

### 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

### Additional information

RTECS : not available

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

## 12 . ECOLOGICAL INFORMATION

### Toxicity

no data available

### Persistence and degradability

no data available

### Bio accumulative potential

no data available

### Mobility in soil

no data available

### PBT and vPvB assessment

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

### Other adverse effect

no data available

## 13 . DISPOSAL CONSIDERATIONS

### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

### 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

SARA 302/311/312/313 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title II, Section 302.

SARA 311/312: No SARA Hazards

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels

### States Regulation

Massachusetts : No components are subject to the Massachusetts Right to Know Act.

New Jersey : BMP-7 active human, recombinant  
CAS-No.—

Pennsylvania : BMP-7 active human, recombinant  
CAS No.—

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.

## 16 . OTHER INFORMATION

### HIMS Rating:

Health hazard : 0

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