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This information is based on technical information believed to be reliable and will be revised
as new knowledge or experience is gained.

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Revision date:

Version 03

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1. Chemical Product and Company Identification

Product Name: human bFGF, recombinant
Use of the substance: For research use only
Company identification: Ajinomoto Co., Inc.

Contact for Correspondence in USA:

Ajinomoto North America
Amino Acid Technologies
4020 Ajinomoto Drive, Raleigh, N.C. 27610
Tel N°: +1-800-682-0982
Fax N°: +919-325-1420

Contact for Correspondence in Japan:

Ajinomoto Co., Inc.
15-1, Kyobashi, 1-chome, Chuo-ku, Tokyo Japan
Tel N°: +81 (0)3-5250-5040
Fax N°: +81 (0)3-5250-0079

2. Composition, Information on Ingredients

Substance or Mixture: Mixture
Composition: 0.1-1 mg/mL (human bFGF, recombinant)
1mM (Dithiothreitol)
Phosphate Buffered Saline (PBS) Solution: See below table.

CAS No.: None (human bFGF, recombinant)
3483-12-3 (Dithiothreitol)

Chemical name of PBS Solution	Cas No.	% by weight
Water	7732 -18 - 5	> 99%
Sodium chloride	7647 -14 - 5	< 1.0%
Sodium phosphate dibasic	7558 -79 - 4	< 0.5%
Dihydrogen potassium phosphate	7778 -77 - 0	< 0.1%
Potassium chloride	7447 -40 - 7	< 0.1%

3. Hazards Identification

GHS Classification of the substance

Physical hazards: Not applicable
Health hazards: Acute toxicity, dermal (Category 4)
Environmental hazards: Not applicable
Label elements: Labelling according to (EC) No.1272/2008
Pictogram:



Signal Word: Warning
Hazard Statement: H312: Harmful in contact with skin
Precautionary statements:
Prevention P280 : Wear protective gloves/protective clothing/eye protection/face protection.
Response P312 : Call a POISON CENTER/doctor if you feel unwell.
P362+352 : Wash with plenty of soap and water.
P362+364 : Take off contaminated clothing and wash before reuse.
Potential effects: Not applicable

4. First-Aid Measures	
<u>Inhalation:</u>	Immediately relocate to a fresh air environment. Rinse mouth with Water. If not breathing, give artificial respiration. Consult a physician.
<u>Skin Contact:</u>	Wash off immediately with plenty of water
<u>Eye Contact:</u>	Immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eyelids with fingers. If contact lenses are being worn, remove lenses and continue rinsing. Seek medical attention.
<u>Ingestion:</u>	Rinse mouth with water and seek medical attention.
5. Fire-fighting measures	
Flash point (method used):	No data available
Flammable limits:	No data available
Extinguishing media:	Use water spray, carbon dioxide, dry chemical powder/foam
Special fire fighting procedures:	Wear self-contained breathing apparatus and protective suit
6. Accidental release measures	
Personal precautions, protective equipment:	Use personal protection, see section 8.
Precautions for the environment:	Do not discharge into sewer, river, underground water, etc.
Recovery, neutralization:	Make spills wet to prevent the generation of dust and then, sweep up into a closed container.
Method for containment and clean-up:	After recovering, wash away spilled area with plenty of water.
7. Handling and storage	
Handling:	Follow good industrial practice in housekeeping and personal hygiene. Wear personal protective equipment as outlined in section 8.
Storage:	Store in closed container at -80°C. Avoid humidity, sun light, and high temperature.
8. Exposure controls/personal protection	
Respiratory protection:	Dust mask or appropriate respirator. Utilize local exhaust ventilation.
Protective gloves:	Rubber
Eye protection:	Chemical safety goggles
Other protective equipment:	Wear appropriate laboratory apparel, protect exposed skin.
Occupational exposure limits:	No OEL values identified
9. Physical and chemical properties	
Appearance:	Colorless frozen liquid
Melting point:	No data available
Boiling point:	No data available
Freezing point:	No data available
10. Stability and reactivity	
Stability:	Stable under recommended storage condition at -80°C
Conditions to avoid:	Humidity and higher temperature
Incompatibility (Materials to avoid):	Strong oxidizing agents
Hazardous decomposition products:	No data available
Hazardous reactions:	No data available
11. Toxicological information	
Acute oral toxicity:	No data available
Sensitization:	No data available
Mutagenicity:	No data available
Primary skin irritation:	May cause skin irritation. No specific data available.
Primary eye irritation:	May cause eye irritation. No specific data available.

12. Ecological information

Toxic effects to fish, algae, and daphnia: No data available

Potential for bioaccumulation: No data available

Biodegradability: No data available

13. Disposal considerations

Dispose of the material as you would with a non-hazardous material in accordance with all applicable national, state and local regulations.

14. Transport information

Keep temperature below -70°C. Prevent damage of the container.

UN Classification : Not classified

US Department of Transportation proper shipping name : None

IATA: Not classified as dangerous in the meaning of transport regulations

15. Regulatory information

None especially.

The information given in this SDS does not replace the users own assessment of workplace risk as required by national, state and local health and safety legislation.

16. Other information

The information contained in this SDS is, to the best of our knowledge true and accurate.

Any recommendations or suggestions made are without guarantee, since the conditions of use are beyond our control.