

SAFETY DATA SHEET:

Recombinant human BMP-4

The information is provided as a service to our customers and is intended only for their use.
 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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Version 01

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1. Chemical Product and Company Identification

Product Name: Recombinant human BMP-4
 Company identification: Ajinomoto Co., Inc.

Contact for Correspondence in Japan:

Ajinomoto Co., Inc.
 15-1, Kyobashi, 1-chome, Chuo-ku, Tokyo Japan
 E-mail : stemfit@asv.ajinomoto.com

2. Hazards Identification

Classification of the substance or mixture: Not a hazardous substance or mixture
 GHS classification: Dose not meet the classification criteria of the EC Directives 67/548/EEC, 1999/45/EC or 1272/2008
 GHS labeling: Dose not need to be labeled in accordance with EC directives or respective national laws
 Special hazards: None

3. Composition, Information on Ingredients

Substance or Mixture: Mixture
 Composition:

Component	CAS No.	% by weight
BMP-4 (amino acids 303-408 of the full length BMP-4 precursor)	-	0.01%
Glycine	56-40-6	0.15%
Hydrochloride	7647-01-0	<0.1%
Water	7732-18-5	>99.7%

4. First-Aid Measures

Inhalation: Immediately relocate to a fresh air environment. Rinse mouth with Water. If not breathing, give artificial respiration. Consult a physician.
Skin Contact: Wash off immediately with plenty of water
Eye Contact: 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.
Ingestion: 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, etc.
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: -
 US Department of Transportation proper shipping name: -
 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.