

## SAFETY DATA SHEET:

## Recombinant Human Activin A

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 05  
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**1. Chemical Product and Company Identification**

Product Name: Recombinant Human Activin A  
 Product No.: SP-ActA-R-010UG, SP-ActA-R-050UG, SP-ActA-R-001MG, SP-ActA-G-001MG  
 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
Activin A	725748-11-8	0.01%
Sodium acetate	127-09-3	0.18%
Acetic acid	64-19-7	0.18%
Water	7732-18-5	99.6%

**4. First-Aid Measures**

Inhalation: If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.  
Skin Contact: Wash off with soap and plenty of water for at least 15 minutes. Consult a physician.  
Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician.  
Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.  
Protection to first-aiders: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**5. Fire-fighting measures**

Classification of substance or mixture: The product is non-flammable.  
Extinguishing media: Use carbon dioxide, dry chemical powder, appropriate foam or water spray.  
Protective equipment: Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

**6. Accidental release measures**

Personal precautions: Use eye protection, gloves, and apron. Implement appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.  
Land spill: Use personal protective equipment. Wash spill site with water after material pickup is complete. Keep in suitable, closed containers for disposal.  
Water spill: Do not let product enter drains.

**7. Handling and storage**Handling:

Avoid inhalation. Avoid contact with eyes, skin, and clothing.

Storage:

Keep tightly closed. Store at -80°C until use.

**8. Exposure controls/personal protection**Control parameters:

Contains no substances with occupational exposure limit values.

Engineering controls:

Ensure adequate ventilation. Use appropriate personal protective work clothing.

Personal Protection:

Respiratory Protection:

NIOSH or MSHA-approved respirator. Mechanical exhaust is required.

Hand Protection:

Handle with chemical-resistant gloves.

Eye Protection:

Put on safety glasses.

Skin Protection:

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**9. Physical and chemical properties**Appearance:

Colorless frozen liquid

Odour:

Not Available.

Odour threshold:

Not Available.

pH:

Around pH4.6 (dissolved in 50 mM sodium acetate buffer) .

Boiling Point/Boiling Range:

Not Available.

Melting Point/Melting Range:

Not Available.

Decomposition Temperature:

Not Available

Flash Point:

Not Available

Autoignition Temperature:

Not Available

Flammability:

Not Available

Vapor Pressure:

Not Available

Vapor Density:

Not Available

Relative Density:

Not Available

Evaporation Rate:

Undetermined

Explosive Properties:

Not Available

Oxidizing Properties:

Not Available

Partition Coefficient (n-octanol/water):

Not Available.

Viscosity:

Not Available

**10. Stability and reactivity**Stability:

Stable under recommended storage condition at -80°C

Possible hazardous reactions:

Hazardous reactions will not occur under normal transport or storage conditions.

Condition to be avoided:

Heat and moisture.

Incompatible materials:

Strong acids/alkalis, strong oxidizing/reducing agents.

Hazardous decomposition products:

Carbon monoxide/carbon dioxide.

**11. Toxicological information**Acute toxicity:

Not Available.

Eye irritation:

Not Available.

Skin irritation:

Not Available.

Sensitization:

Not Available.

Mutagenicity:

Not Available.

Carcinogenicity:

Not Available.

Reproductive developmental toxicity:

Not Available.

Specific target organ systemic toxicity:

Single exposure:

Not Available.

Repeated exposure:

Not Available.

Aspiration hazard:

Not Available.

**12. Ecological information**Ecotoxicity:

Not Available

Persistence and biodegradability:

Not Available

Bioaccumulative potential:

Not Available

Mobility in the soil:

Not Available

Hazardous to the ozone layer:

Not Available



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<b>13.</b>	<b>Disposal considerations</b> <u>Disposal methods:</u>	Dispose of waste in accordance to applicable national, regional, or local regulations.
<b>14.</b>	<b>Transport information</b> <u>DOT Hazard class:</u> <u>IATA Hazard class:</u> <u>IMDG Hazard class:</u>	Non-hazardous for transport Non-hazardous for transport. Non-hazardous for transport.
<b>15.</b>	<b>Regulatory information</b> <u>CERCLA Sections 102a/103 Hazardous Substances (40 CFR 117,302):</u> <u>SARA TITLE III:</u> Section 302 (40 CFR 355) Sections 311/312 (40 CFR 370) Section 313 (40 CFR 372) <u>US Inventory/TSCA (Toxic Substances Control Act):</u> <u>OSHA Hazard Communication Standard:</u> Please refer to any other federal, state and local regulations.	Not applicable Not applicable    Not listed on inventory Non-hazardous
<b>16.</b>	<b>Other information</b> 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.	