

SAFETY DATA SHEET

Recombinant human Activin A



This 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.

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Recombinant human Activin A
Product Code: Not Available
Application of the substance / the preparation: For Research Use Only
Product Description: Solution

MANUFACTURER

Company Name: AJINOMOTO CO., INC.
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2. HAZARDS IDENTIFICATION

GHS classification: Does not meet the classification criteria of the EC Directives 67/548/EEC 1999/45/EC or 1272/2008
GHS labeling: Does not need to be labeled in accordance with EC directives or respective national laws.
Special Hazards: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | Content (%) | CAS No. |
|----------------|-------------|-------------|
| Activin A | 0.01 | 725748-11-8 |
| Sodium acetate | 0.18 | 127-09-3 |
| Acetic acid | 0.18 | 64-19-7 |
| Water | 99.6 | 7732-18-5 |

4. FIRST-AID MEASURES

Inhalation: If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.
Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician.
Skin contact: Wash off with soap and 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.

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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: Solution.

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.

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Decomposition Temperature: Not Available
Flash Point: Not Available
Autoingestion Temperature: Not Available
Flammability: Not Available
Vapor Pressure: Not Available
Vapor Density: Not Available
Relative Density: Not Available
Vapor 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 and handling temperatures.
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.

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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

13. DISPOSAL CONSIDERATION

Disposal methods: Dispose of waste in accordance to applicable national, regional, or local regulations.

14. TRANSPORT INFORMATION

DOT Hazard class: Non-hazardous for transport
IATA Hazard class: Non-hazardous for transport.
IMDG Hazard class: Non-hazardous for transport.

15. REAGULATORY INFORMATION

CERCLA Sections 102a/103 Hazardous Substances (40 CFR 117,302): Not applicable

SARA TITLE III: Not applicable

Section 302 (40 CFR 355)

Sections 311/312 (40 CFR 370)

Section 313 (40 CFR 372)

US Inventory/TSCA (Toxic Substances Control Act): Not listed on inventory

OSHA Hazard Communication Standard: Non-hazardous

Please refer to any other federal, state and local regulations.

16. OTHER INFORMATION

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