

Material Safety Data Sheet (MSDS)

Rev. 06/13/25

SECTION 1. Identification

Product name: Anti-His tag, AlpSdAbs® VHH(Biotin)
Identified uses: For research use only.
Supplier: Chengdu AlpVHHs Co.,Ltd
Building 16, No.99 Haiwang Road, Wenjiang District,
Chengdu, China 611130
Tel: +86 400-166-9953
Email: service@alpvhhs.com

SECTION 2. Hazard(s) identification

This substance/mixture is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Signal Word Not classified

Hazard statement(s) None

Precautionary Statement(s) None

May produce an allergic reaction

Hazards not otherwise classified (HNOC) Not applicable

SECTION 3. Composition/information on ingredients

Chemical Name	CAS No.	Weight %
Protein	Not listed	2.00%
NaCl	7647-14-5	2.60%
KH ₂ PO ₄	7778-77-0	0.10%
Na ₂ HPO ₄	7558-79-4	1.50%
KCl	7447-40-7	0.10%
Sucrose	57-50-1	8.60%
Trehalose	99-20-7	17.10%
Mannitol	69-65-8	68.00%

SECTION 4. First-aid measures

Eye contact Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. Get medical attention immediately if irritation persists.

Skin contact Wash skin with soap and water.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately if symptoms occur.

Ingestion Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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Advice for emergency responders

General advice	For further assistance, contact your local Poison Control Center.
Protection of first-aiders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

SECTION 5. Fire-fighting measures

Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media	No information available.

Specific hazards arising from the chemical

No information available.

Explosion Data

Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Avoid contact with skin, eyes and clothing. Use personal protective equipment. For personal protection see section 8.
Other information	No information available.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

SECTION 7. Handling and storage

Precautions for safe handling

Wear personal protective equipment. See section 8. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage	Keep containers tightly closed in a refrigerator/freezer, with the
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Conditions	Temperature 4°C.
Packaging material	Glass bottle.
Incompatible products	Strong oxidizing agents. Strong acids.

SECTION 8. Exposure controls/personal protection

Appropriate engineering controls

Showers, eyewash stations, and ventilation systems.

Individual protection measures, such as personal protective equipment

Personal protective equipment (PPE) needs to be selected depending on the implemented engineering controls, frequency/duration of work activities and the concentrations of the hazardous substance.

Eye/face protection	If splashes are likely to occur, wear: Tightly fitting safety goggles
Skin and body protection	Wear protective gloves/clothing.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. Physical and chemical properties

Physical state	Colorless odorless solid
Boiling point	No information available
Melting point	No information available
Volatile organic compound	No information available
Solubility	No information available
Solubility in other solvents	No information available

SECTION 10. Stability and reactivity

Reactivity

No information available.

Chemical stability

Stable under normal conditions.

Conditions to Avoid

Extremes of temperature.

Incompatible Materials

Strong oxidizing agents. Strong acids.

Hazardous Decomposition Products

Nitrogen oxides (NOx).

SECTION 11. Toxicological information

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Information on likely routes of exposure

Inhalation	Avoid breathing vapors or mists. May cause irritation of respiratory tract.
Eye contact	Avoid contact with eyes. May cause slight irritation.
Skin contact	Avoid contact with skin.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Information on toxicological effects

This product is for experimental uses only. The product has not been completely analyzed and all of the hazards may not be known. Please use caution while handling this product.

SECTION 12. Ecological information

Ecotoxicity

Persistence and degradability	No information available.
Bioaccumulation	No information available.
Mobility	No information available

Other adverse effects

No information available.

SECTION 13. Disposal considerations

Dispose of in accordance with all applicable national environmental laws and regulations.

SECTION 14. Transport information

This material is not subject to regulation as a hazardous material for shipping.

SECTION 15. Regulatory information

This product does not contain any substances.

Chemical Safety Assessment

No information available

SECTION 16. Other information

This compound is sold only for research use.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Material Safety Data Sheet