

**\*\*\*\* MATERIAL SAFETY DATA SHEET \*\*\*\***

MSDS Name: Biotinylated Human CTLA-4 Protein, His,Avitag™

**\*\*\*\* SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION \*\*\*\***

MSDS Name: Biotinylated Human CTLA-4 Protein, His,Avitag™

Catalog Numbers: CT4-H82E1

Company Identification: ACROBIOSYSTEMS INC

For information, call: +1 800-810-0816

**\*\*\*\* SECTION 2 - HAZARDS IDENTIFICATION \*\*\*\***

**EMERGENCY OVERVIEW**

**Eye:** Potassium chloride can cause eye irritation, including redness, tearing, and possible abrasions.

**Skin:** Sodium Phosphate is a corrosive material and can cause burns.

Sensitization possible through skin contact and inhalation.

**Ingestion:** Material can be irritating to mucous membranes and respiratory tract.

**Inhalation:** Inhalation of high concentrations of dust may cause nasal or lung irritation.

Ingestion of large quantities can produce gastrointestinal irritation and vomiting.

**Chronic:** N/A

**\*\*\*\* SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS \*\*\*\***

The product contains no substances which at their given concentration, are considered to be hazardous to health.

We recommend handling all chemicals with caution.

**\*\*\*\* SECTION 4 - FIRST AID MEASURES \*\*\*\***

**Eyes:** Rinse opened eye for at least 15 minutes under running water, lifting upper and lower eyelids occasionally.

Seek medical attention.

**Skin:** Remove contaminated clothing. Immediately wash with plenty of soap and water for at least 15 minutes.

Seek medical attention.

**Ingestion:** swallowed and patient is conscious, induce vomiting. Seek medical attention immediately.

**Inhalation:** In case of unconsciousness, place patient on side position for transportation.

If not breathing, give artificial respiration. Supply fresh air or oxygen; seek medical attention immediately.

**\*\*\*\* SECTION 5 - FIRE FIGHTING MEASURES \*\*\*\***

Fight larger fires with water or alcohol resistant foam. Firefighters should wear protective equipment and self-contained breathing apparatus. As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.

**\*\*\*\* SECTION 6 - ACCIDENTAL RELEASE MEASURES \*\*\*\***

**Personal Precautions** Use personal protective equipment.

**Methods for Cleaning Up** Take up mechanically and collect in suitable container for disposal.

**\*\*\*\* SECTION 7 - HANDLING AND STORAGE \*\*\*\***

**Handling:** Wear personal protective equipment.

**Storage:** Keep in properly labelled containers.

**\*\*\*\* SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION \*\*\*\***

**Engineering Controls:** Ensure adequate ventilation, especially in confined areas

**Personal Protective Equipment**

**Respiratory Protection :** In case of insufficient ventilation wear suitable respiratory equipment.

**Hand Protection:** Protective gloves.

**Eye Protection:** Safety glasses with side-shields.

**Skin and Body Protection:** Lightweight protective clothing.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice.

**Environmental Exposure:** Prevent product from entering drains.

**\*\*\*\* SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES \*\*\*\***

**General Information**

**Form** Solid Lyophilized powder

**Important Health Safety and Environmental Information**

**Boiling Point/Range** °C No data available °F No data available

**Melting Point/Range** °C No data available °F No data available

**Flash Point** °C No data available °F No data available

**Autoignition Temperature** °C No data available °F No data available

**Oxidizing Properties** No information available

Water Solubility No data available

\*\*\*\* SECTION 10 - STABILITY AND REACTIVITY \*\*\*\*

Stability Stable.  
Materials to Avoid No information available.  
Hazardous decomposition products No information available.  
Polymerization Hazardous polymerisation does not occur.

\*\*\*\* SECTION 11 - TOXICOLOGICAL INFORMATION \*\*\*\*

**Acute Toxicity**

Principle Routes of Exposure/  
Potential Health effects

Eyes May cause eye irritation with susceptible persons.  
Skin. No information available.  
Inhalation May cause irritation of respiratory tract.  
Ingestion May be harmful if swallowed.

**Specific effects (Long Term Effects)**

Carcinogenic e No information available.  
Mutagenic E No information available.  
Reproductive T No information available.  
Sensitization No information available.

\*\*\*\* SECTION 12 - ECOLOGICAL INFORMATION \*\*\*\*

Ecotoxicity E No information available.  
Mobility No information available.  
Biodegradation Inherently biodegradable.  
Bioaccumulation Does not bioaccumulate.

\*\*\*\* SECTION 13 - DISPOSAL CONSIDERATIONS \*\*\*\*

Dispose of in accordance with local regulations

\*\*\*\* SECTION 14 - TRANSPORT INFORMATION \*\*\*\*

Transportation information-DOT/IATA/IMDG  
Not dangerous goods. Be available for any mode of transportation.

\*\*\*\* SECTION 15 - REGULATORY INFORMATION \*\*\*\*

This safety datasheet complies with the requirements of Regulation (EC) No. 1272/2008 (CLP/EU-GHS), 29 CFR 1910.1200 (OSHA).  
Safety, health and environmental regulations/legislation specific for the substance or mixture---no data available  
Chemical Safety Assessment---For this product a chemical safety assessment was not carried out

\*\*\*\* SECTION 16 - OTHER INFORMATION\*\*\*\*

For research use only

**Reported by:**

**Company Name :** ACROBIOSYSTEMS INC

**Date:** 09/20/2024