



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

MSDS Name: Biotinylated Human 4-1BB / TNFRSF9 Protein, His,Avitag™(MALS verified)

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

MSDS Name: Biotinylated Human 4-1BB / TNFRSF9 Protein, His,Avitag™(MALS verified)

Catalog Numbers: 41B-H82E6

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 effects | No information available. |
| Mutagenic Effects | No information available. |
| Reproductive Toxicity | No information available. |
| Sensitization | No information available. |

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

| | |
|---------------------|---------------------------|
| Ecotoxicity Effects | 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. 1907/2006.
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: 07/29/2020