

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

MSDS Name: Human 4-1BB Ligand / TNFSF9 (71-254) Protein, His,Flag Tag, active trimer (MALS verified)

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

MSDS Name:Human 4-1BB Ligand / TNFSF9 (71-254) Protein, His,Flag Tag, active trimer (MALS verified)Catalog Numbers:41L-H52D4

Company Identification: ACROBIOSYSTEMS INC For information, call: +1 800-810-0816

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

### EMERGENCY OVERVIEW

 $Eye: \mbox{Potassium chloride can cause eye irritation, including redness, tearing, and possible abrasions. \\ Skin: Sodium \mbox{Phosphate is a corrosive material and can cause burns.}$ 

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

 Methods for Cleaning Up
 Take up r

Use personal protective equipment. 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** 



	Solid Lyophilized powder		
Important Health Safety and Env	°C No data available	°F No data available	
Boiling Point/Range	°C No data available	°F No data available	
Melting Point/Range	°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.	No information available.	
Hazardous decomposition	No information available.	No information available.	
products			
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 sus	May cause eye irritation with susceptible persons.	
Skin.	No information available.	No information available.	
Inhalation	May cause irritation of respirator	May cause irritation of respiratory tract.	
Ingestion	May be harmful if swallowed.	May be harmful if swallowed.	
Specific effects (Long Term Effects)			
Carcinogenic e	No information available.	No information available.	
Mutagenic E	No information available.	No information available.	
Reproductive T	No information available.	No information available.	
Sensitization	No information available.	No information available.	

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

Ecotoxicity E Mobility Biodegradation Bioaccumulation No information available. No information available. Inherently biodegradable. 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 : <u>ACROBIOSYSTEMS INC</u>

Date:

05/30/2024