

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

MSDS Name: Human Cathepsin S / CTSS Protein, His Tag (active enzyme, MALS verified)

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

MSDS Name: Human Cathepsin S / CTSS Protein, His Tag (active enzyme, MALS verified)

Catalog Numbers: CTS-H52H9

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   | Liquid                   |                      |
| <b>Important Health Safety and Environmental Information</b> |                          |                      |
| 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/<br>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:** 05/30/2024