

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY / UNDERTAKING

### 1.1 Product identifier.

**Product name:** Human ASAH1, C-His, Flag Tag Protein

**Product number:** HA210848

**Pure substance/mixture:** Mixture

### 1.2 Relevant identified uses of the substance or mixture and uses advised

**against: Product use:** For research purposes only. Not for diagnostic purposes

### 1.3 Details of the supplier of the safety data sheet:

**Company:** HUABIO  
300 Tradecenter Drive, Suite 1710  
Woburn, MA 01801, USA  
E-mail address: support@huabio.com

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture according to CLP No 1272 / 2008/GB CLP.

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

### 2.2 Label elements CLP No 1272/2008/GB

#### CLP.

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

### 2.3 Other hazards.

Contains no PBT or vPvB substances according to REACH No 1907/2006.

This mixture does not contain substances with endocrine disrupting properties in accordance with the criteria laid down in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substance:

The product is a mixture.

### 3.2 Mixtures:

No components need to be disclosed according to the applicable regulations.

## SECTION 4. FIRST AID MEASURES

### 4.1 Description of first aid measures.

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.  |
| <b>Skin contact:</b> | Wash skin with plenty of soap and water. Seek doctor if irritation persist.   |
| <b>Eye contact:</b>  | Remove contact lenses. Flush eyes with plenty of water for several minutes. Make sure you flush under the upper and lower eyelids. If irritation continues, contact a doctor. |
| <b>Swallow:</b>      | Rinse mouth   |

### 4.2 Most important symptoms and effects, both acute and delayed:

For more information, see Section 2.2.

### 4.3 Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

## SECTION 5. FIRE FIGHTING MEASURES

**5.1 Extinguishing media:** Water spray, dry chemical, carbon dioxide (CO<sub>2</sub>) or chemical foam.

### Unsuitable extinguishing media:

For this substance/mixture no limitations of extinguishing agents are given.

### 5.2 Special hazards arising from the substance or mixture:

Carbon oxides

Not combustible.

**5.3 Advice for firefighters:** Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation.

### 6.2 Environmental precautions:

See section 12 for additional environmental disclosures.

### 6.3 Methods and material for containment and cleaning up:

Avoid further leaks or spills if it is safe to do.

Pick up mechanically and dispose of in suitable containers.

### 6.4 Reference to other sections:

See section 8 for information on personal protection equipment. See section 13 for disposal information.

## SECTION 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling:

Ensure adequate ventilation.

### 7.2 Conditions for safe storage, including any incompatibilities:

Keep container tightly closed and recommended storage temperature -20 ° C.

Storage class (TRGS 510) LGK 10.

### 7.3 Specific end use(s):

The identified uses for this product are detailed in Section 1.2.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

### 8.2 Exposure controls.

#### Appropriate technical measures:

Change contaminated clothing. Wash hands after working with substance.

#### General information:

Make sure that eyewash station is available.

#### Personal protective equipment:

Only CE-marked personal protection equipment should be used.



#### Respiratory protection:

Not necessary.

#### Hand protection:

Wear gloves. EN 374.  
Option: Nitrile gloves: ≥120  
min. Thickness: ≥0.25 mm.

#### Eye protection:

Wear tightly safety goggles. EN 166.

#### Body protection:

Normal work clothing.

#### Measures to avoid environmental exposure:

No special precautions are necessary.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties.

|                                  |                    |
|----------------------------------|--------------------|
| Physical state:                  | Liquid             |
| Colour:                          | No data available. |
| Odour:                           | No data available. |
| Melting point/freezing point:    | No data available. |
| Boiling point:                   | No data available. |
| Flammability:                    | No data available. |
| Lower and upper explosion limit: | No data available. |
| Flash point:                     | No data available. |
| Auto-ignition temperature:       | No data available. |
| Decomposition temperature:       | No data available. |
| pH:                              | No data available. |
| Kinematic viscosity:             | No data available. |
| Solubility:                      | No data available. |

|  |                    |
|--|--------------------|
| Partition coefficient n-octanol/water: | No data available. |
| Vapour pressure:                       | No data available. |
| Density and/or relative density:       | No data available. |
| Relative vapour density:               | No data available. |
| Particle characteristics:              | No data available. |

## 9.2 Other information:

None.

## SECTION 10. STABILITY AND REACTIVITY

|   |   |
|---|---|
| <b>10.1 Reactivity:</b>                         | No information is available.                    |
| <b>10.2 Chemical stability:</b>                 | Stable under normal conditions.                 |
| <b>10.3 Possibility of hazardous reactions:</b> | None known.                                     |
| <b>10.4 Conditions to avoid:</b>                | None known.                                     |
| <b>10.5 Incompatible materials:</b>             | Strong oxidizing agents.                        |
| <b>10.6 Hazardous decomposition products:</b>   | According to available information, none known. |

## SECTION 11. TOXICOLOGICAL INFORMATION

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008.**

|  |   |
|--|---|
| <b>Acute toxicity:</b>                                     | Oral: No date available<br>Inhalation: No date available<br>Dermal: No date available |
| <b>Skin corrosion/irritation:</b>                          | No date available   |
| <b>Serious eye damage/irritation:</b>                      | No date available   |
| <b>Respiratory or skin sensitisation:</b>                  | No date available   |
| <b>Germ cell mutagenicity:</b>                             | No date available   |
| <b>Carcinogenicity:</b>                                    | No date available   |
| <b>Reproductive toxicity:</b>                              | No date available   |
| <b>Specific target organ toxicity - single exposure:</b>   | No date available   |
| <b>Specific target organ toxicity - repeated exposure:</b> | No date available   |

**Aspiration hazard:** No date available

**11.2 Information on other hazards:**

**Endocrine disrupting properties:**

The product/substance has no endocrine disrupting properties.

**Other information:**

Ingestion May irritate the digestive system.  
Skin contact Skin irritation.  
Eye contact May cause severe eye damage.

**SECTION 12. ECOLOGICAL INFORMATION**

**12.1 Toxicity:**

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

**12.2 Persistence and degradability:** Inherently biodegradable.

**12.3 Bioaccumulative potential:** Material does not bioaccumulate.

**12.4 Mobility in soil:** No information available.

**12.5 Result of PBT and vPvB assesment:**

This substancee does not meet the criteria for PBT or vPvB according to regulation.

**12.6 Endocrine disrupting properties:**

The product/substance has no endocrine disrupting properties.

**12.7 Other adverse effects:** None known.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods:**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental regulations.

**Contaminated packing:** Do not reuse emptied containers.

**SECTION 14. TRANSPORT INFORMATION**

This product is not classified as dangerous of transport.

|  | <b>ADR/RID</b> | <b>IMDG/IMO</b> |
|--|----------------|-----------------|
| <b>14.1 UN number or ID number</b>     | Not relevant   | Not relevant    |
| <b>14.2 UN proper shipping name</b>    | Not relevant   | Not relevant    |
| <b>14.3 Transport hazard class(es)</b> | Not relevant   | Not relevant    |
| <b>14.4 Packing group</b>              | Not relevant   | Not relevant    |

|   |  |  |
|---|--|--|
| <b>14.5 Environmental hazards - MP EmS:</b> | No<br>Not relevant                       | No<br>Not relevant                       |
| <b>Other informations</b>                   | LQ: Not relevant<br>Tunnel: Not relevant | LQ: Not relevant<br>Tunnel: Not relevant |

**14.6 Special precautions for user:**

Not relevant.

**14.7 Maritime transport in bulk according to IMO instruments:**

Not relevant.

## SECTION 15. REGULATORY INFORMATION

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Sources:** Current ADR regulations 2024. Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 2013. Regulation (EU) 2016/425 of 9 March 2016 on personal protective equipment. Hazardous Waste (England and Wales) Regulations 2005 (as amended). EC regulation 1907/2006 (REACH) Directive 2000/532/EC. Seveso directive: 96/82/EC. EC regulation No 2020/878. CLP regulation No 1272/2008. REACH regulation 1907/2006. GB CLP.

**15.2 Chemical safety assessment:**

Not necessary.

## SECTION 16. OTHER INFORMATION

**Additional information:**

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.