

## Safety Data Sheet (SDS)

Prepared in accordance with Regulation (EC) No. 1907/2006 as amended by Regulation (EC) No. 2020/878 and Regulation (EU) No. 1272/2008

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

213 004  
Tyrosine hydroxylase, antiserum  
100 µl

|                         |                |
|-------------------------|----------------|
| Pure substance/mixture: | Pure Substance |
|-------------------------|----------------|

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

|                       |                                                                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recommended use:      | Lyophilized preparation containing proteins or peptides for research use only. Intended for reconstitution with water according to the product instructions. |
| Uses advised against: | Not for therapeutic or diagnostic use in humans or animals                                                                                                   |

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

##### Manufacturer

Synaptic Systems GmbH  
Rudolf-Wissell Str. 28a  
37079 Goettingen  
Germany

|         |                     |
|---------|---------------------|
| Tel:    | +49 (0) 551 50556-0 |
| E-Mail: | sales@sysy.com      |

#### 1.4. Emergency telephone number

|                 |                |
|-----------------|----------------|
| Tel CHEMTREC ®: | 1-800-424-9300 |
|-----------------|----------------|

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Not classified as hazardous substance/mixture based on available composition information.

## 2.2. Label elements

No label elements required for the mixture as supplied, based on current classification assessment.

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

# SECTION 3: Composition/information on ingredients

## 3.1 Mixtures

| Chemical name | CAS-No | EC-No | Classification according to EG No. 1272/2008 (CLP) | Concentration % (w/w) |
|---------------|--------|-------|----------------------------------------------------|-----------------------|
| antisera      | -      | -     | -                                                  | 100% w/w              |

# SECTION 4: First aid measures

## 4.1 Description of first aid measures

- |                   |                                                                                                                                                                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b> | <ul style="list-style-type: none"> <li>Remove exposed person to fresh air and keep warm and at rest in a position comfortable for breathing.</li> </ul>                                                                                 |
| <b>Skin</b>       | <ul style="list-style-type: none"> <li>Remove contaminated clothing and wash affected area with soap and water.</li> </ul>                                                                                                              |
| <b>Eye</b>        | <ul style="list-style-type: none"> <li>In case of contact with eyes, irrigate with room-temperature water or eyewash solution for several minutes, occasionally lifting eyelids. Seek medical advice if irritation persists.</li> </ul> |
| <b>Ingestion</b>  | <ul style="list-style-type: none"> <li>If swallowed, rinse mouth thoroughly and give water to drink.</li> </ul>                                                                                                                         |

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

No adverse effects have been identified.

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

Treat symptoms as they occur.

# SECTION 5: Firefighting measures

- |                                                           |                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5.1 Extinguishing media                                   | <ul style="list-style-type: none"> <li><b>Suitable:</b> Use extinguishing media appropriate to cause of the fire, and the surroundings. Water spray, carbon dioxide and dry-chemical powder are suitable.</li> <li><b>Unsuitable:</b> Not available</li> </ul> |
| 5.2 Special hazards arising from the substance or mixture | <ul style="list-style-type: none"> <li>The product is a lyophilized powder, and is not classified as flammable.</li> </ul>                                                                                                                                     |

### 5.3 Advice for firefighters

- Firefighters should wear an approved self-contained breathing apparatus and full protective clothing

## SECTION 6: Accidental release measures

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

- Wear personal protection (see Section 8). Product is supplied very small volumes (< 1 ml) in a glass vial, and does not pose a health or environmental hazard during foreseeable use.
- Follow prescribed procedures for responding to large spills.

### 6.2 Environmental precautions

- No environmental hazard from foreseen use.
- For large spills, prevent product from entering water courses or drainage system by absorption with inert material.

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

- Clean up spill as soon as possible. Collect plastic vials.
- For small quantities of spilt product, wipe off with cloth or paper.
- For larger quantities, absorb with an inert material such as cloth, or sand. Wash contaminated surfaces with water
- and detergent, and collect waste, washings, and contaminated materials for safe disposal.

### 6.4 Reference to other sections

- For recommended personal protective equipment, see Section 8.
- For disposal considerations, see Section 12.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Use with adequate ventilation
- Avoid creating dust
- Avoid contact with skin, eyes, and clothing
- Do not eat, drink, or smoke when using this product
- Keep away from acids
- Avoid disposal into metal plumbing systems containing copper or lead

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

- Store tightly closed in original container
- Store in a cool, dry, well-ventilated place
- Protect from moisture
- Keep away from acids
- Store according to manufacturer's recommended temperature conditions

### 7.3 Specific end use(s)

- For laboratory/research use only.
- Not for diagnostic or therapeutic use in humans or animals.

## SECTION 8: Exposure control/personal protection

## 8.1 Control parameters

### 8.1 Control parameters

- No specific EU occupational exposure limit identified here for the mixture as such.
- Follow good laboratory practice.

### 8.2 Exposure controls

- **Appropriate engineering controls:** Use in a fume hood or in areas with good general ventilation.
- **Eye/face protection:** Safety glasses or chemical safety goggles
- **Skin protection:** Protective laboratory gloves (e.g. nitrile) and Lab coat or suitable protective clothing
- **Respiratory protection:** Normally not required under intended conditions of use. If dust is generated, use suitable particulate respiratory protection.
- **Hygiene measures:** Wash hands after handling. Remove contaminated clothing and wash before reuse.
- **Environmental exposure controls:** Prevent release to drains and the environment.

## SECTION : Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                          |                         |
|----------------------------------------------------------|-------------------------|
| Physical state                                           | Solid, powder           |
| Colour                                                   | White                   |
| Odour                                                    | Odorless                |
| Melting/freezing point                                   | Not available           |
| Boiling point or initial boiling point and boiling range | Not available           |
| Flammability                                             | Not available           |
| Lower and upper explosion limit                          | Not available           |
| Flash point                                              | Not available           |
| Auto-ignition temp.                                      | Not available           |
| Decomposition temp.                                      | Not available           |
| pH                                                       | Not available           |
| Kinematic viscosity                                      | Not available           |
| Solubility                                               | Freely soluble in water |
| Partition coeff. n-octanol/water (log value)             | Not available           |
| Vapour pressure                                          | Not available           |
| Density or rel. density                                  | Not available           |
| Relative vapour density                                  | Not available           |
| Particle characteristics                                 | Not available           |

## 9.2 Other Information

Not expected to meet the criteria for classification as explosive or oxidising

## SECTION 10: Stability and reactivity

|                                         |                                                                                                |
|-----------------------------------------|------------------------------------------------------------------------------------------------|
| 10.1 Reactivity                         | <ul style="list-style-type: none"> <li>• Not available</li> </ul>                              |
| 10.2 Chemical stability                 | <ul style="list-style-type: none"> <li>• Stable under ambient conditions</li> </ul>            |
| 10.3 Possibility of hazardous reactions | <ul style="list-style-type: none"> <li>• Not available</li> </ul>                              |
| 10.4 Conditions to avoid                | <ul style="list-style-type: none"> <li>• Avoid storage at temperatures above 25 °C.</li> </ul> |
| 10.5 Incompatible materials             | <ul style="list-style-type: none"> <li>• Not available</li> </ul>                              |
| 10.6 Hazardous decomposition products   | <ul style="list-style-type: none"> <li>• Not available</li> </ul>                              |

## SECTION 11: Toxicological information

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

|                                   |                                                                                                                       |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Acute toxicity                    | <ul style="list-style-type: none"> <li>• Based on available data, the classification criteria are not met.</li> </ul> |
| Skin corrosion/irritation         | <ul style="list-style-type: none"> <li>• Based on available data, the classification criteria are not met.</li> </ul> |
| Serious eye damage/irritation     | <ul style="list-style-type: none"> <li>• Based on available data, the classification criteria are not met.</li> </ul> |
| Respiratory or skin sensitisation | <ul style="list-style-type: none"> <li>• Based on available data, the classification criteria are not met.</li> </ul> |
| Germ cell mutagenicity            | <ul style="list-style-type: none"> <li>• Based on available data, the classification criteria are not met.</li> </ul> |
| Carcinogenicity                   | <ul style="list-style-type: none"> <li>• Based on available data, the classification criteria are not met.</li> </ul> |
| Reproductive toxicity             | <ul style="list-style-type: none"> <li>• Based on available data, the classification criteria are not met.</li> </ul> |
| STOT-single exposure              | <ul style="list-style-type: none"> <li>• Based on available data, the classification criteria are not met.</li> </ul> |
| STOT-repeated exposure            | <ul style="list-style-type: none"> <li>• Based on available data, the classification criteria are not met.</li> </ul> |
| Aspiration hazard                 | <ul style="list-style-type: none"> <li>• Not applicable to solid lyophilised mixture.</li> </ul>                      |

### 11.2 Information on likely routes of exposure

Inhalation of dust, ingestion, skin contact, eye contact

### 11.3 Symptoms related to physical, chemical and toxicological characteristics

Possible irritation.

## SECTION 12: Ecological information

- |                                         |                                                                 |
|-----------------------------------------|-----------------------------------------------------------------|
| 12.1 Toxicity                           | • No ingredient classified as toxic.                            |
| 12.2 Persistence and degradability      | • Not available                                                 |
| 12.3 Bioaccumulative potential          | • Not available                                                 |
| 12.4 Mobility in soil                   | • Not available                                                 |
| 12.5 Results of PBT and vPvB assessment | • No ingredient classified as PBT or vPvB.                      |
| 12.6 Endocrine disrupting properties    | • No ingredient classified for endocrine disrupting properties. |
| 12.7 Other adverse effects              | • Not classified as hazardous to the ozone layer.               |

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Dispose of contents/container in accordance with local, regional, national, and international regulations.

## SECTION 14: Transport information

- |                                                              |                                                                       |
|--------------------------------------------------------------|-----------------------------------------------------------------------|
| 14.1 UN Number                                               | • Not classified as dangerous goods for transport.                    |
| 14.2 UN proper shipping name                                 | • Not regulated as dangerous goods based on current draft assessment. |
| 14.3 Transport hazard class(es)                              | • Not assigned                                                        |
| 14.4 Packing group                                           | • Not assigned                                                        |
| 14.5 Environmental hazards                                   | • Not regulated as dangerous goods                                    |
| 14.6 Special precautions for user                            | • Not available                                                       |
| 14.7 Maritime transport in bulk according to IMO instruments | • Not applicable                                                      |

## SECTION 15: Regulatory information

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

This Safety Data Sheet has been prepared in accordance with applicable requirements of Regulation (EC) No 1907/2006 (REACH), as amended, and Regulation (EC) No 1272/2008 (CLP), as amended.

Further national regulations may apply.

## 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

## SECTION 16: Other info

|                                |                                                                                                                                            |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 16.1 Revisions                 | This version 1.0 is formatted according to EU Regulation 2020/878.                                                                         |
| 16.2 References                | Search for chemicals; available at the European Chemicals Agency website:<br><a href="http://echa.europa.eu/">http://echa.europa.eu/</a> . |
| 16.3 Basis of classification   | The mixture is classified on the basis of available information on the ingredients.                                                        |
| 16.4 List of hazard statements | -                                                                                                                                          |

## Additional information

This product is supplied as a lyophilized mixture and is intended to be reconstituted with water before use.

This product is **not intended for diagnostic or therapeutic use in humans or animals**.

Disclaimer: The above information is believed to be correct but is only to be used as a guide for experienced personnel. Proteintech Group, Inc. shall not be liable for any damage resulting from the handling of or contact with the above product.

|                |                                                    |
|----------------|----------------------------------------------------|
| <b>Tel:</b>    | +49 (0) 551 50556-0                                |
| <b>E-Mail:</b> | <a href="mailto:sales@sysy.com">sales@sysy.com</a> |