# 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

231 103
Kv2.2, affinity purified
50 µg

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| **Pure substance/mixture:** | Mixture |

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

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| **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

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

### 1.4. Emergency telephone number

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| **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) |
|---|---|---|---|---|
| Potassium dihydrogen phosphate ($KH_2PO_4$) | 7778-77-0 | 231-931-4 | not classified | 0.6% (w/w) |
| di-Sodium hydrogen phosphate ($Na_2HPO_4$) | 7558-79-4 | 231-448-7 | not classified | 3.3% (w(w) |
| Sodium chloride (NaCl) | 7647-14-5 | 231-598-3 | not classified | 34.1% (w/w) |
| Potassium chloride | 7447-40-7 | 231-211-8 | not classified | 0.5% (w/w) |

For the text of the H- and EUH-phrases, see Section 16

**Estimation of Acute Toxicity**

If no LD50/LC50 data are available or do not correspond to the classification category, the corresponding conversion factor from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

| Chemical name | Oral LD 50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 (4 h) Dust/mist - mg/L | Inhalation LC50 (4 h) Vapor - mg/L | Inhalation LC50 (4 h) Gas - ppm |
|---|---|---|---|---|---|
| Potassium dihydrogen phosphate ($KH_2PO_4$) | 4.640 | >2.000 | no data available | no data available | no data available |
| di-Sodium hydrogen phosphate ($Na_2HPO_4$) | >2.000 | >2.000 | no data available | no data available | no data available |
| Sodium chloride (NaCl) | 3.000 | >10.000 | no data available | no data available | no data available |
| Potassium chloride | 2.600 | no data available | no data available | no data available | no data available |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**Inhalation**

- Remove exposed person to fresh air and keep warm and at rest in a position comfortable for breathing.

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| **Skin** | • Remove contaminated clothing and wash affected area with soap and water. |
| **Eye** | • 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. |
| **Ingestion** | • If swallowed, rinse mouth thoroughly and give water to drink. |

### 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

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| 5.1 Extinguishing media | • **Suitable:** Use extinguishing media appropriate to cause of the fire, and the surroundings. Water spray, carbon dioxide and dry-chemical powder are suitable.<br>• **Unsuitable:** Not available |
| 5.2 Special hazards arising from the substance or mixture | • The product is a lyophilized powder, and is not classified as flammable. |
| 5.3 Advice for firefighters | • Firefighters should wear an approved self-contained breathing apparatus and full protective clothing |

## SECTION 6: Accidental release measures

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| 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.<br>• Follow prescribed procedures for responding to large spills. |
| 6.2 Environmental precautions | • No environmental hazard from foreseen use.<br>• 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.<br>• For small quantities of spilt product, wipe off with cloth or paper.<br>• For larger quantities, absorb with an inert material such as cloth, or sand. Wash contaminated surfaces with water<br>• and detergent, and collect waste, washings, and contaminated materials for safe disposal. |

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| 6.4 Reference to other sections | • For recommended personal protective equipment, see Section 8.<br>• For disposal considerations, see Section 12. |

## SECTION 7: Handling and storage

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| 7.1 Precautions for safe handling | • Use with adequate ventilation<br>• Avoid creating dust<br>• Avoid contact with skin, eyes, and clothing<br>• Do not eat, drink, or smoke when using this product<br>• Keep away from acids<br>• 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<br>• Store in a cool, dry, well-ventilated place<br>• Protect from moisture<br>• Keep away from acids<br>• Store according to manufacturer's recommended temperature conditions |
| 7.3 Specific end use(s) | • For laboratory/research use only.<br>• Not for diagnostic or therapeutic use in humans or animals. |

## SECTION 8: Exposure control/personal protection

### 8.1 Control parameters

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| 8.1 Control parameters | • No specific EU occupational exposure limit identified here for the mixture as such.<br>• Follow good laboratory practice. |
| 8.2 Exposure controls | • **Appropriate engineering controls:** Use in a fume hood or in areas with good general ventilation.<br>• **Eye/face protection:** Safety glasses or chemical safety goggles<br>• **Skin protection:** Protective laboratory gloves (e.g. nitrile) and Lab coat or suitable protective clothing<br>• **Respiratory protection**: Normally not required under intended conditions of use. If dust is generated, use suitable particulate respiratory protection.<br>• **Hygiene measures:** Wash hands after handling. Remove contaminated clothing and wash before reuse.<br>• **Environmental exposure controls:** Prevent release to drains and the environment. |

## SECTION : Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

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| 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

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| 10.1 Reactivity | • Not availabe |
| 10.2 Chemical stability | • Stable under ambient conditions |
| 10.3 ossibility of hazardous reactions | • Not available |
| 10.4 Conditions to avoid | • Avoid storage at temperatures above 25 °C. |
| 10.5 Incompatible materials | • Not available |
| 10.6 Hazardous decomposition products | • Not available |

## SECTION 11: Toxicological information

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

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| Acute toxicity | • Based on available data, the classification criteria are not met. |

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| Skin corrosion/irritation | • Based on available data, the classification criteria are not met. |
| Serious eye damage/irritation | • Based on available data, the classification criteria are not met. |
| Respiratory or skin sensitisation | • Based on available data, the classification criteria are not met. |
| Germ cell mutagenicity | • Based on available data, the classification criteria are not met. |
| Carcinogenicity | • Based on available data, the classification criteria are not met. |
| Reproductive toxicity | • Based on available data, the classification criteria are not met. |
| STOT-single exposure | • Based on available data, the classification criteria are not met. |
| STOT-repeated exposure | • Based on available data, the classification criteria are not met. |
| Aspiration hazard | • Not applicable to solid lyophilised mixture. |

### 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.

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## SECTION 12: Ecological information

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| 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

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| 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

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| 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: http://echa.europa.eu/. |
| 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.

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