

## Safety Data Sheet: Soy Peptone

### 1. Identification

|                          |                                                                                                                                                                                                                                                                              |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product</b>           | Soy Peptone; CAS 91079-46-8; EC 293-434-7                                                                                                                                                                                                                                    |
| <b>Use</b>               | Professional culture-media, fermentation and bioprocess formulation development.                                                                                                                                                                                             |
| <b>Company</b>           | Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)                                                                                                                                                                                                                                  |
| <b>Address</b>           | Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China                                                                                                                                                                                |
| <b>Telephone / email</b> | +86-21-54265599 / sales@zxchem.com.cn                                                                                                                                                                                                                                        |
| <b>Emergency contact</b> | ZXCHEM office number above, office hours, China time (UTC+8). For urgent medical assistance contact local emergency services.                                                                                                                                                |
| <b>Scope</b>             | Reference safety information for Soy Peptone. The reference composition, concentration and supply-grade differences are described in Section 3. This document does not certify the composition or transport status of a specific delivered batch or a different formulation. |

### 2. Hazards Identification

|                              |                                                                                                                                                                                                         |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Classification</b>        | Not classified as hazardous in the matched reference.                                                                                                                                                   |
| <b>Signal word / symbols</b> | No signal word assigned; No GHS pictogram in the selected reference                                                                                                                                     |
| <b>Hazard statements</b>     | No classified hazard statements assigned. Powder can irritate and cause hypersensitivity in susceptible individuals.                                                                                    |
| <b>Prevention</b>            | Use adequate ventilation; avoid inhaling dust. Prevent skin and eye contact. Wear suitable chemical-resistant gloves and eye protection. Wash after handling; keep food and drink out of the work area. |
| <b>Response</b>              | After exposure, stop work and seek medical advice. For severe exposure obtain urgent medical care. Rinse contaminated skin or eyes with water; move an inhalation casualty to fresh air.                |
| <b>Environment</b>           | Prevent uncontrolled release to drains, soil or surface water. Collect spills for appropriate disposal.                                                                                                 |

### 3. Composition / Information on Ingredients

|                             |                                                                                                                                                                                                                 |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reference ingredient</b> | Soy Peptone, CAS 91079-46-8. Natural proteinaceous material with variable peptides and amino acids; no other supplier composition percentages are transferred.                                                  |
| <b>Supply grade</b>         | Total nitrogen $\geq 8\%$ / amino nitrogen $\geq 1.5\%$                                                                                                                                                         |
| <b>Applicability</b>        | The cited concentration or purity describes the reference material. It is not a certificate of analysis for the delivered batch; different solvents or dilutions require the matching supplier safety document. |

#### 4. First-Aid Measures

|                            |                                                                                                                                                                 |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General</b>             | Protect the rescuer from exposure and show the product information to medical personnel. Obtain medical advice if symptoms occur or exposure is significant.    |
| <b>Inhalation</b>          | Move to fresh air and keep the person comfortable. Seek medical care for breathing difficulty or persistent symptoms. Avoid exposing rescuers to dust.          |
| <b>Skin</b>                | Remove contaminated clothing and rinse skin thoroughly with water. Seek medical advice for persistent irritation.                                               |
| <b>Eyes</b>                | Rinse gently with clean water for at least 15 minutes. Remove contact lenses when easy and continue rinsing. Seek medical advice if irritation persists.        |
| <b>Ingestion</b>           | Rinse the mouth. Do not induce vomiting. Give nothing by mouth to an unconscious person. Obtain medical advice.                                                 |
| <b>Effects / treatment</b> | Dust may irritate eyes, skin and breathing passages; sensitive individuals can develop allergic symptoms. Treatment is symptomatic and directed by a clinician. |

#### 5. Fire-Fighting Measures

|                            |                                                                                                                                                    |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Extinguishing media</b> | Use water spray, foam, dry chemical or carbon dioxide suited to the surrounding fire.                                                              |
| <b>Hazards</b>             | Thermal breakdown may release carbon oxides.                                                                                                       |
| <b>Protection</b>          | Firefighters require suitable protective clothing and self-contained breathing equipment. Prevent contaminated firefighting water entering drains. |

#### 6. Accidental Release Measures

|                    |                                                                                                                                    |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personnel</b>   | Isolate the spill and provide ventilation. Use chemical-resistant gloves and eye protection; avoid contact and dust exposure.      |
| <b>Environment</b> | Contain the release and protect drains and waterways. Report significant environmental contamination to the responsible authority. |
| <b>Cleanup</b>     | Collect spilled solid without raising dust into closed labelled containers.                                                        |

#### 7. Handling and Storage

|                          |                                                                                                                                                                                                |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Handling</b>          | Use clean dry tools and localized powder extraction. Wear suitable gloves, eye protection and work clothing. Avoid dust inhalation, particularly by people sensitive to proteinaceous powders. |
| <b>Storage</b>           | Store sealed in a cool, dry, clean warehouse, protected from sunlight, moisture and contamination. Keep away from strong oxidizers.                                                            |
| <b>Incompatibilities</b> | Keep apart from strong oxidizers and uncontrolled contamination.                                                                                                                               |

#### 8. Exposure Controls / Personal Protection

|                               |                                                                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Exposure limits</b>        | No product-specific occupational exposure limit is established here. Control airborne dust and apply current local workplace exposure requirements. |
| <b>Engineering controls</b>   | Use local extraction where dust can be generated. Maintain accessible eyewash and emergency washing facilities.                                     |
| <b>Personal protection</b>    | Wear chemical-resistant gloves selected for the task, suitable protective clothing and splash goggles. Add face protection for splash-prone tasks.  |
| <b>Respiratory protection</b> | Use a properly selected respirator under a respiratory-protection program where engineering controls do not adequately limit airborne exposure.     |
| <b>Hygiene</b>                | Wash after handling, remove contaminated clothing promptly and do not eat, drink or smoke in the work area.                                         |

## 9. Physical and Chemical Properties

|                            |                                                                                                                                           |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Appearance                 | Light yellow powder                                                                                                                       |
| Formula / molecular weight | Natural peptide mixture / No single molecular weight                                                                                      |
| Appearance, supply         | Light yellow powder                                                                                                                       |
| pH, supply                 | 5.0–7.0                                                                                                                                   |
| Water solubility, supply   | Completely soluble                                                                                                                        |
| Other properties           | Additional physicochemical properties beyond the stated values are not established for the supply grade. No unstated values are inferred. |

## 10. Stability and Reactivity

|                   |                                                                                                   |
|-------------------|---------------------------------------------------------------------------------------------------|
| Stability         | Handle and store under the recommended conditions. Prevent contamination and unnecessary heating. |
| Incompatibilities | Keep apart from strong oxidizers and uncontrolled contamination.                                  |
| Decomposition     | Thermal breakdown may release carbon oxides.                                                      |

## 11. Toxicological Information

|                          |                                                                                                                                                                                          |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exposure effects         | Dust may irritate eyes, skin and breathing passages; sensitive individuals can develop allergic symptoms.                                                                                |
| Reference classification | Not classified as hazardous in the matched reference.                                                                                                                                    |
| Toxicological data       | The matched Neogen sheet reports possible irritation and delayed hypersensitivity following protein-powder exposure. It provides no numerical toxicity data for the ZXCHEM supply grade. |

## 12. Ecological Information

|                       |                                                                                                                                                                        |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental effects | Prevent discharge to soil, drains and receiving water. Retain cleanup waste; the reference does not establish complete environmental fate data for the supplied grade. |
| Controls              | Prevent uncontrolled release, collect spills and dispose of contaminated material through an authorized route.                                                         |
| Assessment            | No product-specific PBT/vPvB assessment is claimed. Absence of data does not establish absence of environmental effects.                                               |

## 13. Disposal Considerations

|           |                                                                                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product   | Collect surplus product and contaminated cleanup material for disposal by an authorized chemical-waste contractor in accordance with local requirements. |
| Packaging | Containers may retain product residues. Do not reuse contaminated packaging without an approved cleaning process; use an authorized disposal route.      |

## 14. Transport Information

|                       |                                                                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Classification        | Non-dangerous goods                                                                                                                                     |
| UN number             | Not assigned                                                                                                                                            |
| Shipping name         | Not regulated as dangerous goods                                                                                                                        |
| Class / packing group | DOT, IMDG and IATA: not regulated as dangerous goods in the matched reference.                                                                          |
| Transport precautions | Protect packaging and closures from damage, secure loads and prevent releases. This reference is not a shipping declaration for a specific consignment. |

**15. Regulatory Information**

|                     |                                                                                                                                          |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Identity</b>     | Soy Peptone; CAS 91079-46-8; EC 293-434-7                                                                                                |
| <b>HS reference</b> | 350400; reference heading rather than a destination customs ruling.                                                                      |
| <b>Compliance</b>   | Apply applicable workplace, environmental and transport rules. A raw-material listing does not establish finished-product authorization. |
| <b>Assessment</b>   | No ZXCHEM-specific chemical safety assessment or destination registration is asserted.                                                   |

**16. Other Information**

|                        |                                                                                                                                                                                                                                  |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hazard meanings</b> | No classified hazard statements assigned. Powder can irritate and cause hypersensitivity in susceptible individuals.                                                                                                             |
| <b>Limitations</b>     | Prepared as reference safety information for the identified material. It is not a batch analytical certificate or safety assessment of a different solvent-containing formulation.                                               |
| <b>Revision</b>        | 2026.2; prepared 2026-10-06. Customer-document branding and title corrected; technical safety data retained.                                                                                                                     |
| <b>Document scope</b>  | Reference safety information for the material and grade described in Sections 1 and 3. Different concentrations, solvents or formulations require the applicable safety information. This is not a batch analytical certificate. |

Revision: 2026.2 | Revision date: 2026-10-06