

# Safety Data Sheet: Pepaid HA Series — Animal-Derived Free Amino Acids

## 1. Identification

|                   |                                                                                               |
|-------------------|-----------------------------------------------------------------------------------------------|
| Product family    | Pepaid™ HA Series — Animal-Derived Free Amino Acids                                           |
| Covered models    | HA80, HA40, HA20-LLC, HA20L                                                                   |
| Recommended use   | Agricultural plant nutrition, fertilizer and biostimulant formulation.                        |
| Supplier          | Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)                                                   |
| Address           | Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China |
| Telephone / email | +86-21-54265599 / sales@zxchem.com.cn                                                         |
| Website           | www.zxchem.com/                                                                               |

## 2. Hazards Identification

The low-chloride liquid model uses the HA20L liquid reference. Its lower chloride specification is not a substitute for an assessment of the actual supplied formulation.

|                    |                                                                                                                                                     |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| GHS classification | The covered manufacturer references list no physical, health or environmental hazard classification.                                                |
| Label elements     | No pictogram, signal word or hazard statement assigned in those references.                                                                         |
| Handling concerns  | Skin and eye irritation are reported despite the absence of a formal GHS class. Avoid contact; control airborne powder and prevent wet-floor slips. |

## 3. Composition / Information on Ingredients

HA80 reference composition: 75–100% animal protein hydrolysates. HA40: at least 40%. HA20L: at least 18%. HA20-LLC is the confirmed low-chloride liquid designation also named HA20L-LCC in the technical file; the liquid safety reference does not independently certify its complete formulation.

|                      |                                                                                                                       |
|----------------------|-----------------------------------------------------------------------------------------------------------------------|
| Chemical description | Animal protein hydrolysates; peptide / amino-acid mixtures.                                                           |
| CAS / EC identifiers | 100085-61-8 / 309-203-1 identify the animal protein hydrolysate substance family; the supplied material is a mixture. |
| HA80                 | Animal protein (meat proteins); Powder                                                                                |
| HA40                 | Animal protein (hair and feathers); Powder                                                                            |
| HA20-LLC             | Animal protein (hair and feathers); Liquid                                                                            |
| HA20L                | Animal protein (hair and feathers); Liquid                                                                            |

## 4. First-Aid Measures

|              |                                                                                                                                         |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation   | Move to fresh air and allow the person to rest. Seek medical advice if irritation persists.                                             |
| Skin contact | Wash with plenty of water. Obtain medical attention for redness, inflammation or persistent irritation.                                 |
| Eye contact  | Rinse immediately with running water for at least 15 minutes, holding eyelids open. Remove contact lenses if easy; seek medical advice. |
| Ingestion    | Rinse the mouth. Do not give anything by mouth to an unconscious person. Obtain medical advice if unwell.                               |

## 5. Fire-Fighting Measures

|                               |                                                                                                                          |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable media</b>         | Water spray, foam, multipurpose dry powder or carbon dioxide.                                                            |
| <b>Specific hazards</b>       | Avoid dispersing dry organic powder into airborne clouds near ignition sources. Combustion may produce irritating smoke. |
| <b>Firefighter protection</b> | Use self-contained breathing apparatus and protective equipment appropriate for the surrounding fire.                    |

## 6. Accidental Release Measures

|                             |                                                                                                                  |
|-----------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions</b> | Avoid contact with eyes, skin and respiratory system. Wear suitable gloves, goggles and protective clothing.     |
| <b>Powder cleanup</b>       | Collect gently with dust control; use suitable absorbent if needed and place in appropriate disposal containers. |
| <b>Liquid cleanup</b>       | Contain with appropriate absorbent, collect into suitable containers and ventilate the affected area.            |
| <b>Environment</b>          | Prevent direct discharge into drains. Dispose of collected material at an authorized site.                       |

## 7. Handling and Storage

|                   |                                                                                                                     |
|-------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Handling</b>   | Follow instructions for use and local regulations. Work in well-ventilated areas; keep containers closed.           |
| <b>Storage</b>    | Cool, dry, well-ventilated storage; protect from humidity and weather, ignition sources and incompatible materials. |
| <b>Shelf life</b> | 2 years in sealed original packaging under the stated storage conditions.                                           |

## 8. Exposure Controls / Personal Protection

|                             |                                                                                                                                                |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Exposure limits</b>      | No specific occupational exposure limits are supplied for these mixtures. Monitor the workplace according to local regulations.                |
| <b>Engineering controls</b> | Provide suitable ventilation and workstation risk assessment. Keep eyewash and first-aid equipment available.                                  |
| <b>PPE</b>                  | Chemical-resistant protective gloves, goggles and protective clothing. Use suitable respiratory protection when airborne exposure requires it. |

## 9. Physical and Chemical Properties

|                                            |                                                                                                                                                        |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Physical form</b>                       | Yellow / brownish-yellow powders and red / reddish-brown liquids.                                                                                      |
| <b>Odour</b>                               | Characteristic.                                                                                                                                        |
| <b>HA80 — pH</b>                           | 3.5–5.5                                                                                                                                                |
| <b>HA40 — pH</b>                           | 4–7                                                                                                                                                    |
| <b>HA20-LLC — pH</b>                       | 4.5–5.5                                                                                                                                                |
| <b>HA20L — pH</b>                          | 4.0–6.0                                                                                                                                                |
| <b>Water solubility</b>                    | See the model-specific TDS.                                                                                                                            |
| <b>Flash point</b>                         | HA20L liquid reference: >100°C. Do not transfer this value to an unverified liquid formulation. Powder flash-point test data are not established here. |
| <b>Melting / decomposition temperature</b> | No data available.                                                                                                                                     |

## 10. Stability and Reactivity

|                                 |                                                                                     |
|---------------------------------|-------------------------------------------------------------------------------------|
| <b>Stability</b>                | Stable under normal conditions of use.                                              |
| <b>Incompatible materials</b>   | Strong oxidizing materials.                                                         |
| <b>Hazardous polymerization</b> | Not known in the covered references.                                                |
| <b>Hazardous decomposition</b>  | No specific hazardous decomposition products established in the covered references. |

## 11. Toxicological Information

|                        |                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Acute toxicity</b>  | No quantitative toxicity data available in the covered manufacturer references.                                       |
| <b>Skin irritation</b> | Reported as irritating to skin.                                                                                       |
| <b>Eye irritation</b>  | May irritate eyes.                                                                                                    |
| <b>Sensitization</b>   | No data available.                                                                                                    |
| <b>Other endpoints</b> | No product-specific data supplied for carcinogenicity, mutagenicity, reproductive toxicity or repeated-dose toxicity. |

## 12. Ecological Information

|                           |                                                                                                                        |
|---------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Biodegradability</b>   | The manufacturer references describe the products as readily biodegradable; test method details are not supplied.      |
| <b>Ecotoxicity</b>        | The references do not consider the products harmful to the environment, but discharge into drainage should be avoided. |
| <b>Release prevention</b> | Do not deliberately release bulk product into the environment.                                                         |

## 13. Disposal Considerations

|                 |                                                                                           |
|-----------------|-------------------------------------------------------------------------------------------|
| <b>Residues</b> | Collect at a licensed waste collection point. Prevent uncontrolled environmental release. |
| <b>Disposal</b> | Dispose of product residues and packaging according to relevant local regulations.        |

## 14. Transport Information

HA20-LLC uses the HA20L liquid reference. This reference does not certify a different solvent, additive package or batch formulation.

|                                                 |                                                                               |
|-------------------------------------------------|-------------------------------------------------------------------------------|
| <b>ADR / RID</b>                                | Not dangerous goods in the covered reference grades.                          |
| <b>IMDG</b>                                     | Not dangerous goods in the covered reference grades.                          |
| <b>IATA</b>                                     | Not dangerous goods in the covered reference grades.                          |
| <b>UN number / hazard class / packing group</b> | Not assigned for the covered non-dangerous reference grades.                  |
| <b>Shipment precautions</b>                     | Keep containers sealed and protected from damage, moisture and contamination. |

## 15. Regulatory Information

|                                |                                                                                                                            |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Applicable requirements</b> | Comply with national and local legislation for manufacture, storage, transport and agricultural use.                       |
| <b>Market approvals</b>        | No fertilizer registration, organic-input approval or company-specific regulatory registration is established by this SDS. |

**16. Other Information**

|                       |                                                                                                                                                                                                                                  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Revision</b>       | 2026.3; prepared 2026-10-10. Customer-document branding and title corrected; technical safety data retained.                                                                                                                     |
| <b>Intended scope</b> | Consolidated model-family reference safety information. Powder and liquid differences remain separated. Evaluate suitability for the actual grade and workplace.                                                                 |
| <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: 2026.3 | Revision date: 2026-10-10