

Safety Data Sheet: Coating Enzyme

1. Identification

Product	Coating Enzyme; CAS Mixture (no single CAS); EC Mixture (no single EC)
Use	Professional papermaking process development; reference liquid enzyme preparation.
Company	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
Emergency contact	ZXCHEM office number above, office hours, China time (UTC+8). For urgent medical assistance contact local emergency services.
Scope	Reference safety information for Coating Enzyme. 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

Classification	Respiratory sensitization Category 1 in the selected liquid enzyme reference.
Signal word / symbols	Danger; GHS08
Hazard statements	H334: may cause allergy or asthma symptoms or breathing difficulties if inhaled.
Prevention	Use adequate ventilation; avoid inhaling mist. 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.
Response	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.
Environment	Prevent uncontrolled release to drains, soil or surface water. Collect spills for appropriate disposal.



3. Composition / Information on Ingredients

Reference ingredient	Commercial enzyme preparation; no single CAS. The reviewed liquid functional analogue contains sensitizing active enzyme protein. This document does not establish the actual enzyme identities, carrier ingredients, additive fractions or proprietary supplied formulation.
Supply grade	Activity >100,000 U/mL
Applicability	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

General	Protect the rescuer from exposure and show the product information to medical personnel. Obtain medical advice if symptoms occur or exposure is significant.
Inhalation	Move to fresh air and keep the person comfortable. Seek medical care for breathing difficulty or persistent symptoms. Avoid exposing rescuers to mist.
Skin	Remove contaminated clothing and rinse skin thoroughly with water. Seek medical advice for persistent irritation.
Eyes	Rinse gently with clean water for at least 15 minutes. Remove contact lenses when easy and continue rinsing. Seek medical advice if irritation persists.
Ingestion	Rinse the mouth. Do not induce vomiting. Give nothing by mouth to an unconscious person. Obtain medical advice.
Effects / treatment	Enzyme mist or dried-residue dust can cause respiratory allergy, coughing, wheezing or breathing difficulty; effects can be delayed. Obtain medical assistance for respiratory symptoms. Treatment is symptomatic and directed by a clinician.

5. Fire-Fighting Measures

Extinguishing media	Select water spray, foam, dry chemical or carbon dioxide for the surrounding incident. Contain runoff and avoid dispersal of enzyme aerosols.
Hazards	No actual formulation decomposition profile is established. Firefighters must use self-contained breathing apparatus; avoid exposure to smoke and enzyme aerosols.
Protection	Firefighters require suitable protective clothing and self-contained breathing equipment. Prevent contaminated firefighting water entering drains.

6. Accidental Release Measures

Personnel	Prevent enzyme aerosols and dried-residue dust; ventilate and wear appropriate protection.
Environment	Contain spills and protect drains and waterways.
Cleanup	Recover liquid by low-splash contained methods or compatible inert absorbent. Clean residues without spraying or high-pressure washing; prevent drying residues becoming airborne.

7. Handling and Storage

Handling	Use enclosed low-splash transfer and adequate ventilation. Prevent enzyme mist and dried-residue dust; do not spray or use high-pressure cleaning. Wear suitable gloves, eye protection and work clothing, with respiratory protection where airborne enzyme cannot be adequately controlled.
Storage	Keep tightly closed in the original compatible container in a cool, dry area. Protect from excessive heat, direct sunlight, freezing and contamination. Follow the ordered grade label for the storage temperature; the reference preparation temperature is not a universal specification.
Incompatibilities	No product-specific chemical incompatibility is established. Avoid unqualified mixing; heat, freezing and contamination can reduce activity.

8. Exposure Controls / Personal Protection

Exposure limits	No statutory exposure limit is established for the actual blend. Conduct a task-specific assessment of airborne active enzyme protein and apply local workplace requirements.
Engineering controls	Use local extraction where mist can be generated. Maintain accessible eyewash and emergency washing facilities.
Personal protection	Wear chemical-resistant gloves selected for the task, suitable protective clothing and splash goggles. Add face protection for splash-prone tasks.
Respiratory protection	Use a properly selected respirator under a respiratory-protection program where engineering controls do not adequately limit airborne exposure.
Hygiene	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-brown liquid
Physical form, supply TDS	Light-brown liquid
pH, supply TDS	4.5–6.5
Density, supply TDS	0.95–1.20 g/mL
Other properties	Product-specific values for odor threshold, vapor pressure, partition coefficient, autoignition temperature and viscosity are not supplied by the selected reference set. No values are inferred.

10. Stability and Reactivity

Stability	Handle and store under the recommended conditions. Prevent contamination and unnecessary heating.
Incompatibilities	No product-specific chemical incompatibility is established. Avoid unqualified mixing; heat, freezing and contamination can reduce activity.
Decomposition	No actual formulation decomposition profile is established. Firefighters must use self-contained breathing apparatus; avoid exposure to smoke and enzyme aerosols.

11. Toxicological Information

Exposure effects	Enzyme mist or dried-residue dust can cause respiratory allergy, coughing, wheezing or breathing difficulty; effects can be delayed. Obtain medical assistance for respiratory symptoms.
Reference classification	Respiratory sensitization Category 1 in the selected liquid enzyme reference.
Data limits	Respiratory sensitization is identified in the liquid enzyme reference. No actual blend numerical toxicity, reproductive endpoint or complete carrier assessment is assigned.

12. Ecological Information

Environmental effects	No quantitative ecological endpoint is assigned to the actual proprietary blend. Contain releases and use an authorized disposal route.
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	The selected liquid functional-analogue reference is non-dangerous goods; no UN number or packing group assigned. This classification does not certify an undisclosed carrier or the complete supplied formulation.
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

Identity	Coating Enzyme; CAS Mixture (no single CAS); EC Mixture (no single EC)
HS reference	350790; reference heading rather than a destination customs ruling.
Compliance	Apply applicable workplace, environmental and transport rules. A raw-material listing does not establish authorization for a finished food, flavour or other formulation.
Assessment	No ZXCHEM-specific chemical safety assessment or destination registration is asserted.

16. Other Information

Hazard meanings	H334: may cause allergy or asthma symptoms or breathing difficulties if inhaled.
Limitations	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.
Revision	2026.1; prepared 2026-10-07. Customer-document branding and title corrected; technical safety data retained.
Document scope	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: 2026.1 | Revision date: 2026-10-07