Safety Data Sheet: Hydrolyzed Keratin Powder

Version 2026 | Revision date: 04 November 2026 | Language: English

1. Identification

Product	Hydrolyzed Keratin Powder
Use	Professional personal-care and cosmetic formulation.
Variants / identity	Keratin powder - Hydrolyzed Keratin Powder; Hydrolyzed Keratin
Supplier	Hainan Zhongxin Chemical Co., Ltd.
Address	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China.
Emergency telephone	+86-21-54265599 (office hours, China time, UTC+8)
Website / Email	www.zxchem.com / sales@zxchem.com.cn
Safety information scope	Reference safety information for the stated grade.

2. Hazards Identification

Keratin powder / GHS classification	
Keratin powder / Signal word	
Keratin powder / Pictograms	
Keratin powder / Assigned hazard statements	
Keratin powder / Other hazards	May irritate skin, eyes and the respiratory tract. Fine airborne dust may form an explosive mixture; the powder may burn at elevated temperatures.

Avoid contact and inhalation of dust or mist. Wear suitable protective gloves, clothing and eye protection. Wash after handling. Do not eat, drink or smoke during use.

3. Composition / Information on Ingredients

Hydrolyzed Keratin	CAS 69430-36-0; 100% (ingredient declaration)

Ingredient declarations and ranges apply to the named variant. Ranges and maxima are not simultaneous formulation targets or batch analytical results.

4. First-Aid Measures

Inhalation: Move to fresh air after exposure to dust. Seek medical attention if symptoms develop or persist. If breathing is difficult, obtain urgent medical assistance.

Skin: Wash thoroughly with water and soap; remove contaminated clothing. Obtain medical advice if irritation or an allergic reaction occurs.

Eyes: Rinse cautiously with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical advice if discomfort persists.

Ingestion: Rinse mouth. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical advice, especially after significant ingestion or if symptoms develop.

Symptoms and treatment: Available information indicates skin, eye and respiratory irritation and nausea / vomiting after ingestion. Treat symptomatically; see section 11.

5. Fire-Fighting Measures

Suitable extinguishing media: Dry chemical for small fires; water spray, fog or foam for larger fires. Do not use a water jet.

Specific hazards: May be combustible at high temperatures. Airborne fine dust with an ignition source presents a potential dust explosion hazard. Combustion may produce carbon oxides and nitrogen oxides.

Firefighter protection: Wear self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

Personal precautions: Ventilate the area. Avoid contact and dust generation. Wear the protection described in section 8.

Environmental precautions: Prevent release into drains, surface water and soil.

Containment and cleanup: Collect carefully with suitable tools or a suitable industrial vacuum, avoiding dust dispersal and ignition sources. Place in closed, labelled containers for disposal.

7. Handling and Storage

Handling	Avoid contact and dust generation; use suitable ventilation and good industrial hygiene. Keep containers closed. Use clean tools and prevent contamination.
Keratin powder / storage	Keep packaging sealed in a cool, dry, well-ventilated place at a temperature not exceeding 26 °C. Keep away from heat, ignition sources and oxidizing agents. Packaging: 10 kg; inner PE and aluminium-foil bag, outer carton

Avoid dust formation, sparks and open flames. Ground equipment where dust accumulation or static discharge is possible.

8. Exposure Controls / Personal Protection

Exposure limits	Product-specific occupational exposure limits are not established in the available grade information. Apply relevant component and local workplace limits.
Engineering / hygiene	Use ventilation or local extraction for dust/mist generation. Provide eyewash and washing facilities. Keep food and drink away from handling areas.
PPE	Use safety goggles, suitable chemical-resistant gloves and protective clothing. Select respiratory protection through workplace assessment; emergency responders may require self-contained breathing apparatus.

Prevent airborne dust and ignition sources.

9. Physical and Chemical Properties

Physical state	Solid powder
Appearance	White to light yellow powder
Odour	Characteristic
pH	4.5-7.0 (10% aqueous solution)
Flammability	May burn at elevated temperatures; potential dust explosion hazard
Water solubility	Soluble in cold and hot water
Unestablished properties	Where no variant-specific value is stated: melting/freezing point, boiling range, flash point, flammability, explosive limits, autoignition, decomposition temperature, viscosity, vapour pressure, relative density, vapour density, partition coefficient and particle characteristics are not established.

Appearance and pH are grade-specific. Reported boiling, flash-point and density values have no supplied supporting test report or method and do not establish flammability or transport clearance.

10. Stability and Reactivity

Stability: Available information reports the product stable; hazardous polymerization is not expected.

Conditions to avoid: Excess heat, ignition sources and dust generation.

Incompatible materials: Oxidizing agents.

Hazardous decomposition products: Carbon oxides and nitrogen oxides during combustion.

11. Toxicological Information

Reported effects: Skin and eye irritation; respiratory tract irritation after inhalation; gastrointestinal irritation with nausea and vomiting after ingestion. Additional reported concerns include possible effects on blood (normocytic anaemia and leukocyte count), metabolism, behaviour (ataxia and convulsions), respiration and the urinary system. Supporting product-specific studies were not supplied. Toxicological properties have not been fully investigated.

Endpoint data gaps: Verified product-specific information is not available for skin corrosion / irritation, serious eye damage / irritation, respiratory or skin sensitization, mutagenicity, carcinogenicity, reproductive toxicity, specific target organ toxicity (single or repeated exposure) or aspiration hazard. Missing data do not establish absence of hazard.

12. Ecological Information

Aquatic toxicity, persistence / degradability, bioaccumulation and soil mobility: Product-specific test data are not available.

PBT / vPvB and other adverse effects: Product-specific assessment is not available. Avoid uncontrolled release into the environment. Available information notes that long-term degradation products may arise; their toxicity is not available.

13. Disposal Considerations

Waste treatment: Collect product, absorbents and cleanup residues for disposal in accordance with applicable local and national requirements. Use an authorized waste contractor where required.

Packaging: Do not reuse contaminated empty containers. Dispose of residues and packaging through appropriate waste channels. Avoid discharge to drains.

14. Transport Information

ADR / RID	
IMDG	
IATA	
UN number	
UN proper shipping name	
Transport hazard class	
Packing group	
Environmental transport hazards	
Special precautions	Keep packaging closed and protected against leakage, damage, heat and contamination. Confirm requirements for the actual formulation, package, route and mode before dispatch.
Maritime transport in bulk	

15. Regulatory Information

Regulatory compliance status	
Chemical inventory status	
Chemical safety assessment	
Intended market / use	Professional cosmetic formulation. Assess ingredient and preservative restrictions, finished-product safety and workplace requirements for the destination market.

16. Other Information

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Scope	This safety information applies only to the named grades and declared composition ranges. It is not a shipping clearance or a certificate of finished-product suitability.
Abbreviations	GHS: Globally Harmonized System; SDS: Safety Data Sheet; PPE: personal protective equipment; PBT/vPvB: persistent, bioaccumulative and toxic / very persistent and very bioaccumulative.
Disclaimer	Information is supplied in good faith for professional evaluation. Users must assess the intended formulation, workplace and destination requirements. Blank safety fields do not establish absence of hazard, regulatory compliance or transport exemption.