L-Cysteine

1. Identification

Product	L-Cysteine
CAS No.	52-90-4
Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Shanghai office	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China
Telephone	+86-21-54265599
Email	sales@zxchem.com.cn
Website	www.zxchem.com

2. Hazard Identification

Fine powder may cause mechanical eye and respiratory irritation. Organic powders may present combustible dust hazards when dispersed in air near an ignition source. Avoid breathing dust; use suitable eye protection and control airborne powder during transfer.

Classification	Not classified as hazardous under available GHS criteria, based on available information.
Signal word	None required
Hazard pictograms	None required

3. Composition / Information on Ingredients

Product identity	L-Cysteine
Physical form	White Crystals with Slight Characteristic Smell
CAS No.	52-90-4
Grade	Composition and assay according to the selected product specification.

4. First-Aid Measures

- Inhalation: Move person to fresh air. Rinse mouth/nose if dust exposure occurred. Get medical advice if cough, wheezing, shortness of breath or allergy symptoms persist. - Skin contact: Wash with water and mild soap. Remove contaminated clothing if needed. - Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Get medical attention if irritation persists. - Ingestion: Rinse mouth. Get medical advice if discomfort occurs, if a potent botanical/active ingredient is involved, or if allergic reaction is suspected.

5. Fire-Fighting Measures

- Suitable extinguishing media: Water spray, foam, dry chemical or carbon dioxide. - Specific hazards: Organic powders/extracts may burn under fire conditions. Dust clouds may present explosion risk in severe airborne-dust conditions. - Hazardous combustion products: Carbon oxides, nitrogen oxides and irritating smoke; sulfur or phosphorus oxides may form for some ingredients. - Protective equipment: Firefighters should wear self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

- Avoid creating airborne dust. Use vacuum equipment suitable for fine powders or gentle sweeping methods. - Wear eye protection and dust mask/particulate respirator where airborne powder may form. - Prevent large quantities from entering drains or surface water. - Collect in clean labelled containers if uncontaminated. Dispose of contaminated material according to local rules.

7. Handling and Storage

Avoid creating airborne dust during weighing and transfer. Keep packaging closed after use. Store in a well-closed container Away from moisture.

8. Exposure Controls / Personal Protection

- Engineering controls: General ventilation is normally sufficient; use local exhaust for dusty operations. - Respiratory protection: Use approved particulate/dust mask or respirator when airborne powder is generated. - Eye protection: Safety glasses or goggles recommended during repacking or blending. - Hand protection: Clean protective gloves recommended to maintain hygiene and avoid prolonged contact. - Hygiene measures: Wash hands after handling. Do not eat, drink or smoke in processing areas.

9. Physical and Chemical Properties

Appearance	White Crystals with Slight Characteristic Smell
Solubility	Freely soluble in water, methanol, ethanol, soluble in acetonitrile and chloroform

10. Stability and Reactivity

- Stable under recommended dry, cool and hygienic storage conditions. - Avoid moisture, high heat, direct sunlight, contamination, strong odors, strong oxidizing agents and strong acids/bases. - Some botanical extracts, oils, waxes and antioxidants may oxidize or discolor with air, heat or light exposure. - Hazardous decomposition under fire may produce carbon oxides, nitrogen oxides and irritating smoke.

11. Toxicological Information

Dust may irritate the respiratory tract and eyes. Sensitive individuals may experience reactions to the material. Control occupational exposure through ventilation, appropriate protective equipment and good handling hygiene. Product-specific acute and repeated-exposure test data are not provided.

12. Ecological Information

Avoid uncontrolled release to the environment. Prevent large quantities from entering drains or surface water. Product-specific ecotoxicity, persistence and bioaccumulation test data are not provided.

13. Disposal Considerations

- Dispose of contaminated product in accordance with local food, feed, organic waste, botanical waste or industrial waste rules. - Uncontaminated low-hazard product may be handled as non-hazardous organic waste where permitted. - Do not discharge large quantities to drains. - Empty packaging should be disposed of or recycled according to local regulations.

14. Transport Information

Keep packaging closed and protected from moisture, contamination, heat and physical damage during transport.

Transport status	Not regulated as dangerous goods, based on available product transport information.
UN number	Not regulated
Proper shipping name	Not regulated
Transport hazard class	Not regulated
Packing group	Not applicable

15. Regulatory Information

Product identity	L-Cysteine
CAS No.	52-90-4
GHS classification	Not classified as hazardous on the available product information.

16. Other Information

Safety and handling information for the identified product in its stated physical form.

Revision	2026.1
Revision date	2026-10-02
Prepared by	ZXCHEM

Supplier Contact

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