Calcium Alpha Ketoglutarate

1. Identification

Product	Calcium Alpha Ketoglutarate Monohydrate; CAS 402726-78-7
Scope	At least 98% calcium 2-oxopentanedioate hydrate, supplied as a dry solid. Excludes anhydrous salts, solutions and carrier blends.
Use	Professional ingredient handling and formulation. This sheet is occupational safety information, not a therapeutic or consumption instruction.
Supplier	Jiangsu Khonor Chemicals Co.,Limited
Address	Rm 1902 Easey Comm Bldg, 253-261, Hennessy RD Wanchai HK
Telephone	+86 19851820538
Email	carlos@khonorchem.com
Emergency contact	+86-518-85108858

2. Hazards Identification



Classification	Skin irritation, Category 2; eye irritation, Category 2A.
Label elements	Warning; GHS07 (exclamation mark).
Hazard statements	H315: Causes skin irritation. H319: Causes serious eye irritation.
Precautions	P264: Wash thoroughly after handling. P280: Wear protective gloves and eye protection. P302+P352: Wash exposed skin with plenty of water. P305+P351+P338: Rinse eyes cautiously; remove contact lenses if easy and continue rinsing. P332+P313 / P337+P313: Obtain medical advice for persistent irritation. P362+P364: Remove contaminated clothing and wash before reuse.
Other hazards	Avoid airborne powder and direct contact. Control dust accumulation during bulk handling.

3. Composition / Information on Ingredients

Substance	Calcium alpha-ketoglutarate monohydrate (calcium 2-oxopentanedioate hydrate)
CAS No.	402726-78-7
Specification	Purity (HPLC): at least 98.0%
Composition scope	Hydrated solid ingredient; no solvent or carrier formulation is included.

4. First Aid Measures

Inhalation	Move to fresh air without exposing the rescuer. Obtain medical advice if symptoms occur; trained responders should provide assistance for breathing difficulties.
Skin	Remove contaminated clothing. Wash with water and soap. Seek medical advice for persistent irritation.
Eyes	Rinse gently with flowing water for at least 15 minutes. Remove contact lenses if easy and continue rinsing. Obtain medical advice.
Swallowing	Rinse mouth. Do not induce vomiting or give anything by mouth to an unconscious person. Seek medical advice.
Symptoms	Skin and eye irritation are the classified effects. Further acute and delayed endpoint data are not available.

5. Fire-Fighting Measures

Extinguishing media	Select water spray, dry chemical, foam or carbon dioxide to suit the surrounding fire.
Fire hazards	Heating or burning organic material can release harmful combustion gases. Avoid breathing smoke.
Protection	Firefighters require protective clothing and self-contained breathing apparatus; contain contaminated firewater.

6. Accidental Release Measures

Personal precautions	Isolate the spill area. Limit access to trained personnel. Avoid airborne dust and direct contact. Use the protection in Section 8.
Containment / cleanup	Collect carefully with equipment appropriate for fine powders. Put waste in a closed, labeled container. Do not disperse dust with compressed air.
Environment	Prevent entry into drains, soil and surface water.

7. Handling and Storage

Handling	Avoid dust formation and contact with skin or eyes. Use suitable ventilation, close containers between transfers and wash hands before breaks.
Storage	Keep sealed in a dry, ventilated place at room temperature. Reseal opened packaging promptly and follow the batch label for quality-preserving conditions.
Specific precautions	Protect containers from damage, moisture and contamination.

8. Exposure Controls / Personal Protection

Exposure limits	No product-specific occupational limit is supplied here. Apply relevant local workplace standards.
Engineering controls / PPE	Use enclosed transfer or local exhaust to limit dust. Select protective gloves, goggles and work clothing for the task. Use an approved particulate respirator when ventilation does not adequately control exposure; follow local occupational limits and respiratory protection procedures.
Hygiene	Keep contaminated workwear separate. Provide an eye-rinse facility where powder is handled.

9. Physical and Chemical Properties

Appearance	White to off-white powder or crystals
Formula / molecular weight	C5H6CaO6 / 202.18 g/mol (monohydrate)
pH	6.0-8.0 according to the supplied ingredient specification; test conditions are not specified.
Other properties	Melting point, boiling point, flash point, solubility, vapor pressure, density, partition coefficient and ignition limits: quantitative data not available. Kinematic viscosity is not applicable to the solid.

10. Stability and Reactivity

Stability	Stable under the recommended dry, sealed storage conditions.
Reactivity / incompatible materials	Specific reaction and incompatibility data are not available. Prevent contamination and evaluate compatibility before processing.
Decomposition	Burning material may release carbon monoxide, carbon dioxide and metal oxides. Avoid breathing fumes.

11. Toxicological Information

Health effects	Classified for skin irritation and serious eye irritation. Avoid dust inhalation and unintended ingestion.
Toxicological data	Quantitative acute toxicity, sensitization, mutagenicity, carcinogenicity, reproductive toxicity, repeated-dose toxicity and aspiration data are not available. Lack of data is not evidence of no hazard.

12. Ecological Information

Environmental precautions	Avoid uncontrolled discharge. Collect spills and dispose of residues through an authorized route.
Ecotoxicity / fate	Quantitative aquatic toxicity, persistence, bioaccumulation and soil mobility data are not reported for the supplied batch.

13. Disposal Considerations

Product waste	Dispose through an authorized waste contractor according to the local classification of the waste. Do not pour residues into drains.
Packaging	Keep contaminated packaging closed and labeled. Do not reuse for food or drink; apply local disposal requirements.

14. Transport Information

Classification	Non-dangerous goods for the identified dry hydrated solid under ADR/RID, IMDG and IATA.
UN number / class / packing group	Not assigned
Precautions	Keep packaging sealed, intact and dry. Secure packages and prevent contamination during transport.

15. Regulatory Information

Safety classification	Use the GHS hazard and transport classifications in Sections 2 and 14 for this grade.
Market requirements	Chemical inventory, food, feed, cosmetic or pharmaceutical authorizations are separate from this SDS. The importer and user must meet the requirements applicable to the destination and intended use.

16. Other Information

Revision	2026.2; revision date 2026-10-11
Use of this sheet	Occupational safety information for the hydrated solid grade identified in Section 1. It is not a batch COA, a food-use authorization or a classification of another formulation.
Abbreviations	GHS: Globally Harmonized System; ADR/RID: road/rail transport; IMDG: sea transport; IATA: air transport; PPE: personal protective equipment.