

Safety Data Sheet (SDS)

According to Regulation (EC) No. 1907/2006 (REACH)

Product: Alpha-GPC

CAS number: 28319-77-9

Revision date: 12 March 2026

1. Identification of the substance and of the company

Product identifier

Product name: Alpha-GPC

Chemical name: L-Alpha-glycerolphosphorylcholine

CAS number: 28319-77-9

Synonyms: Choline alfoscerate; Choline glycerophosphate; L- α -Glycerophosphorylcholine.

Relevant identified uses

Chemical reference material

Laboratory research and analytical applications

Not intended for food, drug, cosmetic or household use.

Supplier

Rexar

Genestetstraat 3

2394 XK Hazerswoude

Netherlands

Email: info@rexar.nl

Emergency information

Contact local poison control centre.

2. Hazards identification

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Not classified as hazardous. A reviewed REACH-format SDS for choline glycerophosphate states that the substance does **not** meet the criteria for classification under CLP.

Label elements

Pictograms: None
Signal word: None
Hazard statements: None.

Other hazards

Use standard laboratory precautions. Avoid dust formation, inhalation of airborne particles, and unnecessary contact with eyes or skin. The reviewed SDS also notes that **fine dust enrichment can create dust explosion risk**, even though the delivered product is not dust-explosion capable in normal form.

3. Composition / information on ingredients

Substance: Alpha-GPC

CAS number: 28319-77-9

Molecular formula: C₈H₂₀NO₆P

Molecular weight: 257.22 g/mol.

Purity: typically ≥98%

Note: if the marketed product is **Alpha GPC 50%**, this section should be revised to reflect the **actual mixture composition** of the sold material. Your current Rexar product listing indicates a 50% Alpha-GPC product.

4. First aid measures

General advice

Remove affected person from exposure and ensure fresh air. Seek medical advice if symptoms persist.

Inhalation

Move person to fresh air. If breathing is irregular or stopped, seek medical assistance immediately.

Skin contact

Brush off loose particles and rinse skin with water or shower. Remove contaminated clothing.

Eye contact

Rinse cautiously with water for at least several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Ingestion

Rinse mouth with water. Do not induce vomiting. Seek medical advice if necessary.

5. Firefighting measures

Suitable extinguishing media

Water spray
Foam
Alcohol-resistant foam
ABC powder.

Unsuitable extinguishing media

Water jet.

Special hazards

Hazardous combustion products may include nitrogen oxides, carbon monoxide, carbon dioxide and phosphorus oxides. Fine dust accumulation can present explosion potential.

Protective equipment

Firefighters should use self-contained breathing apparatus and prevent contaminated firefighting water from entering drains or watercourses.

6. Accidental release measures

Personal precautions

Remove persons to safety. Wear appropriate protective equipment and respiratory protection if exposed to dust.

Environmental precautions

Keep away from drains, surface water and ground water.

Cleanup methods

Take up mechanically, place in appropriate containers for disposal, and ventilate affected area.

7. Handling and storage

Handling

Use local and general ventilation. Take precautionary measures against static discharge. Wash hands after handling. Do not eat, drink or smoke in work areas. Keep away from food and feedstuffs.

Storage

Store in a tightly sealed container in a cool, dry and well-ventilated area. For your Rexar material, storage at **2–8 °C protected from moisture** is consistent with your current technical datasheet.

8. Exposure controls / personal protection

Exposure limits

No substance-specific occupational limit was identified in the reviewed SDS; the document instead references general dust workplace exposure limits.

Engineering controls

General ventilation.

Personal protective equipment

Eye protection: safety glasses

Gloves: protective gloves

Respiratory protection: particulate filter device if dust is generated.

9. Physical and chemical properties

Appearance: white solid / white hygroscopic powder

Odor: characteristic

Melting point: about 141 °C

Boiling point: about 480 °C

Water solubility: highly soluble / freely soluble in water

Density: about 0.79 g/cm³.

10. Stability and reactivity

Chemical stability

Stable under normal ambient and anticipated storage and handling conditions.

Conditions to avoid

No specific conditions are listed, but dust accumulation should be minimized because fine dust enrichment may increase explosion risk.

Incompatible materials

Oxidisers.

Hazardous decomposition

Hazardous combustion products may include carbon oxides, nitrogen oxides and phosphorus oxides.

11. Toxicological information

According to the reviewed CLP-format SDS, Alpha-GPC / choline glycerophosphate **does not meet the criteria for classification** for acute toxicity, skin irritation, serious eye irritation, respiratory or skin sensitisation, germ cell mutagenicity, carcinogenicity, reproductive toxicity, STOT single exposure, STOT repeated exposure, or aspiration hazard.

Exposure routes may include inhalation of dust, ingestion, skin contact and eye contact.

12. Ecological information

Limited ecological data available in the reviewed sources. Avoid release into the environment and prevent entry into drains or waterways.

13. Disposal considerations

Dispose of material in accordance with local regulations. Place collected spill material in suitable containers for disposal.

14. Transport information

No dangerous-goods transport classification is stated in the reviewed SDS. For normal supply, use sealed, correctly labelled containers and avoid dust release during handling.

15. Regulatory information

This product is supplied as a **chemical reference material for laboratory use**.

According to the reviewed REACH-format SDS, the substance is **not classified as hazardous under Regulation (EC) No. 1272/2008 (CLP)**.

16. Other information

This Safety Data Sheet provides information for safe handling in laboratory environments.

The product is supplied **for research and analytical use only**.

The information provided is based on reviewed public safety documentation and identity records and is believed to be accurate, but does not constitute a guarantee of product properties.