Safety Data Sheet: Guar Hydroxypropyltrimonium Chloride

Version 2026 | Revision date: 2026-10-13 | Language: English

1. Identification

Product	Guar Hydroxypropyltrimonium Chloride
CAS / EC	65497-29-2 / Not assigned to the polymer
Use	Cationically modified guar for conditioning and rheology development in personal-care formulations.
Uses advised against	Unassessed consumer, medical or other applications outside the qualified grade and intended use.
Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Address	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China
Contact	+86-21-54265599 | sales@zxchem.com.cn | www.zxchem.com
Emergency contact	+86-21-54265599; office hours, China time UTC+8. For an urgent incident, contact local emergency services.
Scope	Reference safety information for Guar Hydroxypropyltrimonium Chloride. 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. Hazard identification

Classification	Not classified as hazardous in the matched reference.
Signal word	Not applicable
Pictograms	None required
Hazard statements	No GHS hazard statements assigned to the matched reference.
Prevention	Use ventilation, eye protection and appropriate gloves; avoid unnecessary exposure.
Response	Follow the exposure-specific first-aid measures in Section 4. Remove contaminated clothing. Seek urgent advice for severe symptoms.
Storage / disposal	Keep closed under the conditions in Section 7. Dispose through an authorized waste route under local rules.
Other hazards	Dust, splashes, process conditions and decomposition can create exposure risks not represented by the commercial assay.

3. Composition/information on ingredients

Cationically modified guar	CAS 65497-29-2; quantitative composition is not disclosed in the solid reference.
Commercial scope	Cationic-guar powder reference. The E-14S nitrogen, moisture and viscosity limits are commercial TDS specifications; a fixed molecular formula, molecular weight or complete additive composition is not established.

4. First-aid measures

Eye contact	Rinse eyes immediately with water for at least 15 minutes; remove contact lenses when easily possible and continue rinsing. Seek medical attention if irritation persists.
Inhalation	Move to fresh air without exposing rescuers. Seek medical attention for persistent or developing symptoms.
Skin contact	Remove contaminated clothing and rinse thoroughly with water. Seek care if irritation or rash develops; wash clothing before reuse.
Ingestion	Rinse the mouth. Do not induce vomiting or give anything by mouth to an unconscious person. Seek medical advice after substantial ingestion or if symptoms occur.
Symptoms	No supply-grade quantitative acute, repeated-dose, sensitization or reproductive test results have been provided. Dust or splashes may cause temporary irritation; avoid unnecessary exposure.
Immediate treatment	Treat symptoms. Seek medical advice for persistent effects; protect rescuers against secondary exposure.

5. Fire-fighting measures

Media / specific hazards	Use suitable surrounding-fire media and avoid airborne dust. Organic powder can burn at elevated temperature; heating can produce irritating fumes.
Protection	Use full protective equipment and self-contained breathing apparatus. Fight from a safe position; contain contaminated firewater and cool exposed containers when safe.

6. Accidental release measures

Personal / environmental precautions	Restrict entry, avoid exposure and prevent environmental release. Use the controls and protection in Section 8.
Containment / cleanup	Exclude unprotected personnel and collect the solid without creating airborne dust, using suitable tools and labeled waste containers. Prevent drain and waterway entry.
References	See Sections 7, 8 and 13 for handling, protection and disposal.

7. Handling and storage

Handling	Avoid contact and inhalation; maintain ventilation and good hygiene. Use suitable equipment and prevent chemical contamination.
Storage	Keep tightly closed in a cool, dry, ventilated place. Protect against moisture and contamination; keep away from incompatible materials. Protect against direct light; avoid strong acids and oxidizers.
Incompatibilities	Avoid strong acids and oxidizers. Finely dispersed organic powder can create a combustible-dust process hazard; no batch dust-explosion test is supplied.
Specific end use	Cationically modified guar for conditioning and rheology development in personal-care formulations.

8. Exposure controls/personal protection

Control parameters	No supply-specific occupational exposure limit or DNEL/PNEC is established by this record. Apply local substance and particulate exposure limits where relevant.
Engineering and personal protection	Use closed transfer or local extraction. Provide an eyewash and safety shower. Wear chemical-resistant gloves selected for the actual exposure, protective clothing and splash goggles. For airborne dust, use a suitable approved respirator selected through a workplace risk assessment; emergency or unknown atmospheres require independent air supply.
Hygiene / environmental control	Wash after handling; separate contaminated clothing. Contain product and process effluent; do not eat or drink in handling areas.

9. Physical and chemical properties

Physical state / appearance	Pale-cream to light-yellow powder
Formula / formula weight	Polymer; molecular-weight distribution is grade dependent.
Viscosity, agreed test conditions	3,000–5,500 mPa·s
pH, agreed aqueous test conditions	8.0–11.0
Solubility	Water-soluble polymer; hydration depends on mixing conditions.
Odor / odor threshold	No supply-grade value provided.
Boiling / decomposition point	No supply-grade limit provided.
Flammability / flash point	No supply-grade test value provided; see fire and reactivity information in Sections 5 and 10.
Vapor pressure / density	No supply-grade value provided.
Partition coefficient / autoignition	No supply-grade value provided.

10. Stability and reactivity

Reactivity / stability / reactions	Avoid strong acids and oxidizers. Finely dispersed organic powder can create a combustible-dust process hazard; no batch dust-explosion test is supplied.
Conditions and materials to avoid	Follow the incompatible-material and storage requirements in Section 7.
Decomposition products	See Section 5. No normal-storage decomposition is indicated under the recommended conditions.

11. Toxicological information

Routes / effects	No supply-grade quantitative acute, repeated-dose, sensitization or reproductive test results have been provided. Dust or splashes may cause temporary irritation; avoid unnecessary exposure.
Other endpoints	Supply-batch sensitization, mutagenicity, carcinogenicity, reproduction and repeated-dose testing has not been provided. This does not override the classifications and target organs listed in Section 2.
Mixture assessment	Reference-substance or component results are not delivered-batch analytical or toxicological results.

12. Ecological information

Aquatic toxicity / behavior	No supply-grade aquatic toxicity, degradation, bioaccumulation or mobility endpoints have been provided. Prevent uncontrolled environmental release.
Other environmental endpoints	Supply-batch PBT/vPvB, endocrine-disruption, persistence, degradation, mobility and bioaccumulation assessments have not been provided. Do not infer absence of effects from missing data.

13. Disposal considerations

Product and residues	Characterize waste under applicable local rules and use a licensed waste contractor. Do not discharge chemical residues or contaminated process water to drains.
Contaminated packaging	Do not reuse contaminated packaging for unrelated purposes. Handle retained material with the same protection as the product and use an authorized disposal or return route.

14. Transport information

ADR / RID	This road/rail regime is outside the cited reference assessment; no classification is asserted for this mode.
US DOT	Not regulated as dangerous goods in the matched reference; no UN number, class or packing group assigned.
IMDG	Not regulated as dangerous goods in the matched reference; no UN number, class or packing group assigned.
IATA	Not regulated as dangerous goods in the matched reference; no UN number, class or packing group assigned.
Environmental hazards	No transport environmental-hazard designation is assigned in the matched reference.
Special precautions	Use mode-appropriate packaging and secure closures. Quantity exemptions and bulk authorization are not assumed.
Scope	Transport entries apply to the reference identity, concentration and form described in Section 3. Changes in composition require reassessment.

15. Regulatory information

Classification framework	GHS/CLP reference classification is given for the material in Section 3. Local worker-protection, labeling, transport, environmental and end-use requirements apply.
Registration / use status	No supply-specific registration number, market authorization or end-use certification is established by this reference record.
Chemical safety assessment	No supply-formulation chemical safety assessment is supplied by ZXCHEM in this record.

16. Other information

Revision date	2026-10-13; initial ZXCHEM reference safety document, version 2026.1.
Abbreviations	ADR/RID: road/rail dangerous goods; IMDG: maritime dangerous goods; IATA: air dangerous goods; PG: packing group; LD50/LC50: median lethal dose/concentration; STOT: specific target organ toxicity.
Use of information	Use together with the grade TDS and a workplace assessment. Concentration, solvent, impurity or physical-form changes require applicable safety information.
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.

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