Safety Data Sheet (SDS) - Ammonium Glycyrrhizate

According to Regulation (EC) No 1907/2006 (REACH), as amended by Regulation (EU) 2020/878
Version 1.2, 23-Nov-2026

Section 1. Identification of the substance/mixture and of the company

Product name:	Ammonium Glycyrrhizate
Recommended uses:	Ingredient for professional cosmetic, nutraceutical, pharmaceutical formulation, analytical and R&D use
Uses advised against:	Uses not permitted by applicable legislation; household or non-professional use
Catalogue Number:	NST-10-178
Supplier:	NATURE SCIENCE TECHNOLOGIES Ltd Briezu 11, Lapsas, Latvia, LV-2107 Phone: +371 24220280 Email: sales@nstchemicals.com Emergency: Latvian Poison Information Centre +371 67042473 (24/7)

Section 2. Hazards identification

Classification: Regulation (EC) No 1272/2008 (CLP): Eye Irrit. 2, H319.

Label elements:



Hazard pictogram: GHS07 (exclamation mark). Signal word: Warning.
Hazard statement: H319 Causes serious eye irritation.
Precautionary statements: P264 Wash hands, forearms and face thoroughly after handling. P280 Wear protective gloves/eye protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. P501 Dispose of contents/container in accordance with applicable regulations.
Other hazards: Fine dispersed organic dust may form a combustible dust atmosphere. The substance is not identified as PBT, vPvB or an endocrine disruptor.

Section 3. Composition/information on ingredients

Chemical name:	Ammonium Glycyrrhizate; assay 98.0-102.0% on the anhydrous basis (titration specification)
Synonyms:	Monoammonium glycyrrhizinate; Glycyrrhizic acid monoammonium salt; Ammonium glycyrrhizinate
Chemical formula:	C42H65NO16
Molecular weight:	839.97 g/mol
CAS No:	53956-04-0
EC No.	258-887-7

Section 4. First aid measures

Inhalation:	Move to fresh air and keep at rest in a position comfortable for breathing. Obtain medical advice if coughing, breathing difficulty or other symptoms occur.
Skin:	Remove contaminated clothing. Wash skin with soap and plenty of water. Obtain medical advice if irritation occurs. Wash contaminated clothing before reuse.
Eyes:	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Obtain medical attention if irritation persists.
Ingestion:	Rinse mouth. Do not induce vomiting. Obtain medical advice if unwell or if a significant amount has been swallowed. Never give anything by mouth to an unconscious person.

Section 5. Firefighting measures

Extinguishing media suitable:	Water spray, alcohol-resistant foam, dry extinguishing powder or carbon dioxide. Use extinguishing measures appropriate to the surrounding fire.
Special protection of fire-fighters:	Wear self-contained breathing apparatus and full protective equipment. Thermal decomposition may produce carbon monoxide and carbon dioxide.

Section 6. Accidental release measures

Personal precautions:	Avoid dust formation, inhalation and contact with skin or eyes. Ensure adequate ventilation and wear the protective equipment described in Section 8.
Environmental precautions:	Prevent entry into drains, surface water and soil. Avoid uncontrolled release to the environment.
Methods for cleaning up:	Collect mechanically or with a HEPA-filtered vacuum without generating dust. Place in a closed, labelled container for disposal and clean the affected area.

Section 7. Handling and storage

Handling:	Handle in a well-ventilated area. Minimise dust formation. Avoid inhalation and contact with eyes, skin and clothing. Wash thoroughly after handling.
Storage:	Store in a cool and dry place. Keep container tightly closed and protect from strong light, heat and moisture. The product is hygroscopic. Keep away from strong oxidising agents.

Section 8. Exposure controls/personal protection

Engineering measures:	No substance-specific occupational exposure limit has been established. Apply applicable limits for nuisance dust. Use local exhaust ventilation where dust may form and provide eyewash facilities.
Hygiene measures:	Wash hands and exposed skin thoroughly after handling and before breaks. Do not eat, drink or smoke in work areas. Remove contaminated clothing before reuse.
Personal protective equipment:	Respiratory protection: suitable particulate-filter respirator when dust forms or ventilation is insufficient. Hands: chemical-resistant protective gloves, e.g. nitrile.
Skin and body:	Protective work clothing appropriate to the scale and duration of exposure. Wash contaminated clothing before reuse.
Eyes:	Safety glasses with side shields; use tightly fitting chemical goggles where dust exposure is significant.

Section 9. Physical and chemical properties

Physical state:	Solid, hygroscopic powder
Colour:	White to yellowish white
Odour:	No data available
Molecular Weight:	839.97 g/mol
Melting point:	Approximately 207-217 deg C (literature; may vary with hydration state)
Flash point:	No data available
Boiling point:	No data available; decomposition may occur before boiling
Solubility:	Slightly soluble in water; very slightly soluble in anhydrous ethanol; practically insoluble in acetone. Solubility depends on pH, temperature and test conditions.
Explosive properties:	Not classified as explosive. Accumulated fine airborne organic dust may form a combustible dust atmosphere.

Section 10. Stability and reactivity

Stability:	Stable under recommended storage and normal handling conditions. Hygroscopic; protect from strong light, heat and moisture.
Materials to avoid:	Strong oxidising agents; excessive heat, strong light and moisture.
Hazardous decomposition products:	Carbon monoxide, carbon dioxide and nitrogen oxides may form during combustion or thermal decomposition.

Section 11. Toxicological information

Acute toxicity:	Based on available data, the classification criteria for acute toxicity are not met. Oral LD50 (rat) reported as >10000 mg/kg.
Skin corrosion/irritation:	Causes serious eye irritation. Based on available data, the classification criteria for skin irritation are not met. Dust may cause mechanical irritation.
Respiratory or skin sensitisation:	Based on available data, the substance is not classified as a respiratory or skin sensitiser.
CMR effects:	Based on available data, the substance is not classified for germ-cell mutagenicity, carcinogenicity or reproductive toxicity.
Signs and symptoms of exposure:	Eye contact may cause pain, redness and tearing. Dust may cause mechanical irritation of the respiratory tract or skin.
Potential health effects:	See the route-specific information below. Effects may be more pronounced after substantial or prolonged exposure.
Inhalation:	Dust may cause mechanical irritation, coughing, sore throat or breathing discomfort.
Skin:	Prolonged or repeated contact may cause mechanical irritation, dryness or discomfort.
Eyes:	Causes serious eye irritation; redness, pain and tearing may occur.
Ingestion:	May cause gastrointestinal discomfort if swallowed. Acute oral toxicity classification criteria are not met based on available data.
Other information:	Handle using standard precautions for chemical substances and prevent unnecessary dust, skin and eye exposure.

Section 12. Ecological information

Ecotoxicity:	Available screening data do not indicate classification as hazardous to the aquatic environment. Avoid uncontrolled release.
Persistence and degradability:	Persistence, degradability, bioaccumulation and mobility data are limited. Based on available information, the substance is not identified as PBT or vPvB.
Other adverse effects:	The substance is not identified as having endocrine-disrupting properties at 0.1% or above. No other adverse environmental effects are known.

Section 13. Disposal considerations

Product:	Dispose of contents through a licensed waste disposal contractor in accordance with local, regional and national requirements. Do not discharge to drains.
Contaminated packaging:	Empty completely. Handle contaminated packaging in the same way as the product. Recycle clean packaging where permitted.

Section 14. Transport information

ADR/RID:	Not regulated as dangerous goods
IMDG:	Not regulated as dangerous goods
IATA:	Not regulated as dangerous goods

Section 15. Regulatory information

EU regulatory information:	Prepared in accordance with Regulation (EC) No 1907/2006 (REACH), Annex II, as amended by Regulation (EU) 2020/878. Classification and labelling have been assessed under Regulation (EC) No 1272/2008 (CLP), as amended. Cosmetic, food or food-supplement use must comply with all applicable EU and national requirements. A chemical safety assessment has not been carried out by the supplier for this product.

Section 16. Other information

Notice to reader:	Version 1.2; revision date 23-Nov-2026. Revised to retain only general grade specifications. Approved GHS pictogram artwork was applied with corrected aspect ratio and spacing. Chemical classification and transport wording were not changed. Hazard statement: H319 Causes serious eye irritation. The information is based on the product specification and safety information available at the date of issue. It is provided in good faith as guidance for safe handling, storage, transport and disposal and is not a warranty of product properties. Users are responsible for assessing suitability and complying with all applicable requirements for their intended use.