Safety Data Sheet (SDS) - Astragaloside IV

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:	Astragaloside IV; purity >=98.0%
Recommended uses:	Ingredient for professional formulation, analytical and R&D use
Uses advised against:	Uses not permitted by applicable legislation; household or non-professional use
Catalogue Number:	NST-10-68
Supplier:	NATURE SCIENCE TECHNOLOGIES Ltd Briezu 11, Lapsas, Latvia, LV-2107 Phone: +371 24220280 Email: sales@nstchemicals.com Website: www.nstchemicals.com Emergency: Latvian Poison Information Centre +371 67042473 (24/7)

Section 2. Hazards identification

Classification:



Regulation (EC) No 1272/2008 (CLP): Acute Tox. 4 (oral), H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335.
Hazard pictogram: GHS07. Signal word: Warning. Hazard statements: H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.
Precautionary statements: P261 Avoid breathing dust. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/eye protection. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P302+P352 IF ON SKIN: Wash with plenty of water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing. P501 Dispose of contents/container in accordance with applicable regulations.
Other hazards: Fine airborne organic dust may form a combustible dust atmosphere. PBT, vPvB and endocrine-disrupting properties have not been established.

Section 3. Composition/information on ingredients

Chemical name:	Astragaloside IV, >=98.0% (HPLC specification).
Synonyms:	Astrasieversianin; Cyclosiversioside F; AS-IV
Chemical formula:	C41H68O14
Molecular weight:	784.97 g/mol
CAS No:	84687-43-4
EC No.	Not available

Section 4. First aid measures

Inhalation:	Move to fresh air and keep at rest. Obtain medical advice if coughing, breathing difficulty or other symptoms occur.
Skin:	Remove contaminated clothing. Wash skin thoroughly with soap and water. Obtain medical advice if irritation develops or persists.
Eyes:	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Obtain medical advice if irritation persists.
Ingestion:	Rinse mouth. Do not induce vomiting. Call a POISON CENTER or doctor if unwell. 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 measures appropriate to the surrounding fire.
Special protection of fire-fighters:	Wear self-contained breathing apparatus and full protective equipment. Combustion may produce carbon monoxide, carbon dioxide and irritating fumes.

Section 6. Accidental release measures

Personal precautions:	Avoid dust formation, inhalation and contact with skin or eyes. Ensure ventilation. Wear protective gloves and eye protection. Keep unprotected persons away.
Environmental precautions:	Prevent entry into drains, surface water and soil. Notify authorities if a significant release reaches water or drains.
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 area.

Section 7. Handling and storage

Handling:	Handle in a well-ventilated area. Minimise dust. Avoid inhalation, ingestion and contact with eyes, skin and clothing. Wash thoroughly after handling.
Storage:	Store in an airtight container at +2 to +8 °C. Keep dry and protect from strong light and heat. 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 nuisance-dust limits. Use local exhaust ventilation and provide eyewash facilities.
Hygiene measures:	Wash hands and exposed skin after handling and before breaks. Do not eat, drink or smoke in work areas. Remove contaminated clothing before reuse.
Personal protective equipment:	Respiratory: suitable particulate-filter respirator where dust forms or ventilation is insufficient. Hands: chemical-resistant gloves appropriate to the task, e.g. nitrile.
Skin and body:	Protective work clothing appropriate to the scale and duration of exposure. Wash contaminated clothing before reuse.
Eyes:	Tightly fitting safety goggles. Add face protection where high dust exposure is possible.

Section 9. Physical and chemical properties

Physical state:	Solid, fine powder
Colour:	White
Odour:	No data available
Molecular Weight:	784.97 g/mol
Melting point:	Approximately 284-285 °C (literature data)
pH:	No data available
Boiling point:	No data available; decomposition may occur before boiling
Solubility:	Sparingly soluble in water; soluble in DMSO
Explosive properties:	Not classified as explosive. Fine airborne organic dust may form a combustible dust atmosphere.

Section 10. Stability and reactivity

Stability:	Stable under recommended storage and normal handling conditions. Store airtight at +2 to +8 °C and protect from moisture, strong light and heat.
Materials to avoid:	Strong oxidising agents, excessive heat, ignition sources, moisture and strong light. Avoid dust accumulation.
Hazardous decomposition products:	Carbon monoxide, carbon dioxide and irritating fumes may form during combustion or thermal decomposition.

Section 11. Toxicological information

Acute toxicity:	Harmful if swallowed (Acute Tox. 4, H302). Product-specific quantitative acute-toxicity data are limited and supplier classifications differ.
Skin corrosion/irritation:	Causes skin irritation (Skin Irrit. 2, H315) and serious eye irritation (Eye Irrit. 2, H319).
Respiratory or skin sensitisation:	Based on available data, classification criteria for respiratory or skin sensitisation are not established.
CMR effects:	Available data do not permit a definitive conclusion for germ-cell mutagenicity, carcinogenicity or reproductive toxicity; minimise exposure.
Signs and symptoms of exposure:	Dust may irritate the respiratory tract, skin and eyes. Harmful effects may follow ingestion.
Potential health effects:	No product-specific target-organ data are available beyond the single-exposure respiratory-irritation classification.
Inhalation:	May cause respiratory irritation (STOT SE 3, H335), particularly as airborne dust.
Skin:	No adequate product-specific repeated-exposure data are available.
Eyes:	Causes serious eye irritation; redness, pain and watering may occur.
Ingestion:	Harmful if swallowed; may cause gastrointestinal discomfort.
Other information:	Avoid ingestion and unnecessary dust exposure; follow the protective measures in Section 8.

Section 12. Ecological information

Ecotoxicity:	Not classified as hazardous to the aquatic environment in the principal supplier SDS used for this assessment. Avoid uncontrolled release.
Persistence and degradability:	Product-specific persistence, degradability, bioaccumulation and mobility data are limited.
Other adverse effects:	PBT, vPvB and endocrine-disrupting properties have not been established. Collect spills and contaminated cleaning materials.

Section 13. Disposal considerations

Product:	Dispose of contents through a licensed waste contractor in accordance with local, regional and national requirements. Do not discharge to drains.

Contaminated packaging:	Empty completely. Treat contaminated packaging as the product. Recycle only thoroughly cleaned packaging where permitted.

Section 14. Transport information

ADR/RID:	Not regulated as dangerous goods under ADR/RID. No UN number, transport hazard class or packing group assigned.
IMDG:	Not regulated as dangerous goods under IMDG. Not classified as a marine pollutant.
IATA:	Not regulated as dangerous goods under IATA. No UN number, transport hazard class or packing group assigned.

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 assessed under Regulation (EC) No 1272/2008 (CLP), as amended. A chemical safety assessment has not been carried out by the supplier.

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. Conservative classification is based on current supplier safety information for Astragaloside IV, CAS 84687-43-4; published supplier classifications are not fully harmonised. Product identity and quality properties derive from the applicable specification. This information is provided in good faith as guidance for safe handling, storage, transport and disposal and is not a warranty of product properties. Users remain responsible for suitability and legal compliance.