Safety Data Sheet (SDS) - Shikimic Acid

According to Regulation (EC) No 1907/2006 (REACH), as amended by Regulation (EU) 2020/878
Version 1.1, 26-Oct-2026

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

Product name:	Shikimic Acid; purity >=98.0%
Recommended uses:	Ingredient for professional formulation, analytical and manufacturing use
Uses advised against:	Uses not permitted by applicable legislation; household or non-professional use
Catalogue Number:	NST-10-116
Supplier:	NATURE SCIENCE TECHNOLOGIES Ltd Briezu 11, Lapsas, Latvia, LV-2107 Email: inquiries@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): Eye Dam. 1 (H318), conservative classification based on current supplier safety information.
Hazard pictogram: GHS05. Signal word: Danger. Hazard statement: H318 Causes serious eye damage.
Precautionary statements: P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face 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. P310 Immediately call a POISON CENTRE/doctor. P501 Dispose of contents/container in accordance with applicable regulations.
Other hazards: Fine airborne organic dust may form a combustible dust atmosphere. The substance is not identified as PBT or vPvB. Endocrine-disrupting properties have not been established.

Section 3. Composition/information on ingredients

Chemical name:	Shikimic acid, mono-constituent substance; purity specification >=98.0% by HPLC.
Synonyms:	(-)-Shikimic acid; (3R,4S,5R)-3,4,5-Trihydroxy-1-cyclohexene-1-carboxylic acid
Chemical formula:	C7H10O5
Molecular weight:	174.15 g/mol
CAS No:	138-59-0
EC No.	205-334-2

Section 4. First aid measures

Inhalation:	Move to fresh air and keep comfortable for breathing. Obtain medical advice if coughing, breathing discomfort or other symptoms persist.
Skin:	Remove contaminated clothing. Wash skin thoroughly with soap and water. Obtain medical advice if irritation develops or persists.
Eyes:	Immediately rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a poison centre or ophthalmologist.
Ingestion:	Rinse mouth. Do not induce vomiting. Give water only if conscious. Obtain medical advice if unwell or after swallowing a significant amount.

Section 5. Firefighting measures

Extinguishing media suitable:	Water spray, alcohol-resistant foam, dry extinguishing powder or carbon dioxide. Select extinguishing media appropriate to the surrounding fire.
Special protection of fire-fighters:	Wear self-contained breathing apparatus and full protective equipment. Combustion or thermal decomposition may produce carbon monoxide, carbon dioxide and irritating fumes. Avoid dispersing dust.

Section 6. Accidental release measures

Personal precautions:	Restrict access. Avoid dust formation and inhalation. Prevent contact with eyes. Ensure adequate ventilation. Wear protective gloves and eye/face protection.
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 reuse or disposal. Clean the affected area.

Section 7. Handling and storage

Handling:	Use with adequate ventilation. Minimise dust formation. Avoid breathing dust and contact with eyes. Wear protective gloves and eye/face protection. Wash thoroughly after handling.
Storage:	Store in a cool, dry place. Keep the container tightly closed and protect from heat and strong light. 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 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: protective gloves appropriate to the work, 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 and, where significant exposure is possible, a face shield.

Section 9. Physical and chemical properties

Physical state:	Solid, fine powder
Colour:	Off-white
Odour:	No data available
Molecular Weight:	174.15 g/mol
Melting point:	Approximately 185-190 deg C
pH:	No reliable product-specific data available
Boiling point:	No data available; decomposition may occur before boiling
Solubility:	Soluble in water (reported approximately 180 g/l)
Explosive properties:	Not classified as explosive. Fine airborne organic dust may form a combustible dust atmosphere.

Section 10. Stability and reactivity

Stability:	Stable for 24 months when properly stored. Stable under recommended storage and normal handling conditions.
Materials to avoid:	Strong oxidising agents, excessive heat, strong light, moisture and conditions that generate airborne dust.
Hazardous decomposition products:	Carbon monoxide, carbon dioxide and irritating fumes 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. Reported oral LD50: >2,000 mg/kg (rat).
Skin corrosion/irritation:	Causes serious eye damage (Eye Dam. 1, H318). Based on available data, the criteria for skin corrosion/irritation are not met.
Respiratory or skin sensitisation:	Based on available data, the classification criteria for respiratory or skin sensitisation are not met.
CMR effects:	Based on available data, the classification criteria for germ-cell mutagenicity, carcinogenicity and reproductive toxicity are not met.
Signs and symptoms of exposure:	Eye contact may cause severe pain, redness and serious damage. Dust may mechanically irritate the respiratory tract.
Potential health effects:	The principal classified effect is serious eye damage. No specific target-organ toxicity is known from single exposure.
Inhalation:	Dust may cause coughing, sore throat or breathing discomfort through mechanical irritation.
Skin:	Prolonged or repeated contact may cause dryness or mild mechanical irritation.
Eyes:	Causes serious eye damage, with pain and redness. Permanent injury is possible without prompt rinsing and medical attention.
Ingestion:	May cause gastrointestinal discomfort if a significant amount is swallowed.
Other information:	Treat symptomatically. Immediate medical attention is required after eye exposure.

Section 12. Ecological information

Ecotoxicity:	No adequate product-specific aquatic toxicity data are available. The substance is not classified as hazardous to the aquatic environment. Avoid uncontrolled release.
Persistence and degradability:	Persistence, degradability, bioaccumulation and mobility data are limited. The substance is not identified as PBT or vPvB on the basis of available information.
Other adverse effects:	Endocrine-disrupting properties have not been established. No other adverse environmental effects are known.

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. Handle contaminated packaging in the same way as the substance. Recycle clean packaging where permitted.

Section 14. Transport information

ADR/RID:	Not regulated as dangerous goods
IMDG:	Not regulated as dangerous goods. Marine pollutant: No.
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 assessed under Regulation (EC) No 1272/2008 (CLP), as amended. A chemical safety assessment has not been carried out by the supplier for this product.

Section 16. Other information

Notice to reader:	Version 1.1; revision date 26-Oct-2026. Approved GHS pictogram artwork was applied with corrected aspect ratio and spacing. Chemical classification and transport wording were not changed. Conservative classification: Eye Dam. 1 (H318), based on current European supplier safety information for shikimic acid, CAS 138-59-0; other suppliers report no CLP classification. ADR/RID, IMDG and IATA transport: not regulated. Product identity and quality properties derive from the applicable quality specification; batch-specific results, lot information and manufacturing or analysis dates are intentionally excluded. This information is guidance for safe handling and is not a warranty of product properties. Users remain responsible for suitability and legal compliance.