Safety Data Sheet (SDS) - Baicalin

According to Regulation (EC) No 1907/2006 (REACH), as amended by Regulation (EU) 2020/878
Version 1.3, 23-Nov-2026

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

Product name: Baicalin
Recommended uses: Ingredient for professional nutraceutical, cosmetic, formulation, analytical and R&D use
Uses advised against: Uses not permitted by applicable legislation; household use
Catalogue Number: NST-10-71
Supplier: NATURE SCIENCE TECHNOLOGIES Ltd
Briezu 11, Lapsas, Latvia, LV-2107
Phone: +371 24220280
Email: inquiries@nstchemicals.com
Emergency: Latvian Poison Information Centre +371 67042473 (24/7)

Section 2. Hazards identification

Classification: Regulation (EC) No 1272/2008 (CLP): Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3 (respiratory tract irritation), H335.

Label elements:



Hazard pictogram: GHS07 (exclamation mark). Signal word: Warning.
Hazard statements: H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.
Precautionary statements: P261 Avoid breathing dust. P280 Wear protective gloves and eye protection. P302+P352 IF ON SKIN: Wash with plenty of water. 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.
Other hazards: The substance is not identified as PBT or vPvB and is not identified as an endocrine disruptor.

Section 3. Composition/information on ingredients

Chemical name: Baicalin (>95.0% purity by HPLC area normalization; >90.0% assay by external standard method)
Synonyms: Baicalein 7-O-glucuronide; Baicalein 7-O-beta-D-glucopyranosiduronic acid; Huang Qin glycoside
Chemical formula: C21H18O11
Molecular weight: 446.36 g/mol
CAS No: 21967-41-9
EC No. 606-866-1

Section 4. First aid measures

Inhalation: Move to fresh air and keep at rest. Obtain medical attention if symptoms occur or persist.
Skin: Remove contaminated clothing. Wash skin with plenty of water and soap. If skin irritation occurs, obtain medical advice.
Eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, obtain medical advice.
Ingestion: Rinse mouth. Do not induce vomiting. Obtain medical advice if a significant quantity was swallowed or if symptoms occur.

Section 5. Firefighting measures

Extinguishing media suitable: Water spray, 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 breathing dust and contact with skin and eyes. Ensure adequate ventilation. Wear suitable gloves, protective clothing and eye 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 disposal and clean the affected area.

Section 7. Handling and storage

Handling: Handle in a well-ventilated area. Avoid dust formation and inhalation. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.
Storage: Store in a cool and dry place. Keep container tightly closed and keep away 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 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 and wash 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.
Eyes:	Safety glasses with side shields or chemical goggles.

Section 9. Physical and chemical properties

Physical state:	Solid, fine powder
Colour:	Light yellow
Odour:	Characteristic
Molecular Weight:	446.36 g/mol
Melting point:	Approximately 196 deg C (literature)
Flash point:	No data available
Boiling point:	No data available; decomposition may occur before boiling
Solubility:	Slightly soluble in water; soluble in DMSO (literature)
Explosive properties:	Not classified as explosive. Accumulated fine airborne dust may form a combustible dust atmosphere.

Section 10. Stability and reactivity

Stability:	Stable under recommended storage and normal handling conditions. Protect from strong light, heat and moisture.
Materials to avoid:	Strong oxidising agents; excessive heat and strong light.
Hazardous decomposition products:	Carbon monoxide and carbon dioxide 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. Reliable quantitative LD50/ATE values are not available for the supplied material.
Skin corrosion/irritation:	Causes skin irritation and serious eye irritation.
Respiratory or skin sensitisation:	Based on available data, 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:	Skin and eye irritation. Dust exposure may cause respiratory tract irritation, coughing or discomfort.
Potential health effects:	See the route-specific information below. Effects may be delayed following significant dust exposure.
Inhalation:	May cause respiratory irritation.
Skin:	Causes skin irritation.
Eyes:	Causes serious eye irritation.
Ingestion:	No specific adverse effects are known; ingestion of large amounts may cause gastrointestinal discomfort.
Other information:	Handle using standard precautions for chemical substances and minimise all dust exposure.

Section 12. Ecological information

Ecotoxicity:	No adequate aquatic toxicity data are available. Avoid release to the environment.
Persistence and degradability:	No adequate persistence, degradability, bioaccumulation or mobility data are available. The substance is not identified as PBT or vPvB based on available information.
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. A chemical safety assessment has not been carried out by the supplier for this product.

Section 16. Other information

Notice to reader:	Version 1.3; revision date 23-Nov-2026. Revised to retain only general grade specifications. The quantitative assay wording was corrected to align with the current product specification, and the supplier email address was updated. Chemical classification, hazard statements and transport wording were not changed. 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.