Safety Data Sheet (SDS) - Biotin

According to Regulation (EC) No 1907/2006 (REACH), as amended by Regulation (EU) 2020/878
Version 1.1, 23-Nov-2026

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

Product name:	Biotin (D-Biotin)
Recommended uses:	Ingredient for professional nutraceutical, cosmetic, vitamin-premix, manufacturing and R&D use
Uses advised against:	Uses not permitted by applicable legislation; household use
Catalogue Number:	NST-12-8
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): Not classified as a hazardous substance. Based on available information, the classification criteria are not met.
Label elements:	Hazard pictograms: None required. Signal word: None. Hazard statements: None required. Precautionary information: Avoid breathing dust and avoid unnecessary contact with skin and eyes. Use appropriate ventilation and personal protective equipment when dust may form. Other hazards: Fine airborne dust may cause mechanical irritation. The substance is not identified as PBT or vPvB based on available information.

Section 3. Composition/information on ingredients

Chemical name:	D-Biotin (97.5%-102.0% assay, USP specification)
Synonyms:	Biotin; Vitamin B7; Vitamin H; Coenzyme R; (+)-Biotin; D-(+)-Biotin
Chemical formula:	C10H16N2O3S
Molecular weight:	244.31 g/mol
CAS No:	58-85-5
EC No.	200-399-3

Section 4. First aid measures

Inhalation:	Move to fresh air and keep at rest. Obtain medical advice if breathing difficulty or other symptoms occur.
Skin:	Remove contaminated clothing. Wash skin with soap and plenty of water. Obtain medical advice if irritation persists.
Eyes:	Rinse cautiously with water for at least 10 minutes. Remove contact lenses if present and easy to do. Continue rinsing; seek medical advice if irritation persists.
Ingestion:	Rinse mouth and drink water if conscious. 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, alcohol-resistant foam, dry chemical 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, carbon dioxide, nitrogen oxides and sulfur oxides.

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 and avoid inhalation and contact with skin, eyes and clothing. Keep away from incompatible materials.
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. Use local exhaust ventilation where dust may form 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 protection: suitable particulate-filter respirator (for example, EN 143 type P1) when ventilation is insufficient or dust exposure is significant. Hands: 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; use chemical goggles where dust exposure is significant.

Section 9. Physical and chemical properties

Physical state:	Solid, crystalline powder
Colour:	White to off-white
Odour:	No data available
Molecular Weight:	244.31 g/mol
Melting point:	231-233 deg C (decomposes; literature)
Flash point:	No data available
Boiling point:	Not applicable; decomposes before boiling
Solubility:	Slightly soluble in water
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, carbon dioxide, nitrogen oxides and sulfur 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. Reported oral LD50 in rats is greater than 2,000 mg/kg.
Skin corrosion/irritation:	Based on available data, classification criteria are not met. Dust or prolonged contact may cause mechanical irritation.
Respiratory or skin sensitisation:	Based on available data, classification criteria are not met; specific sensitisation data are limited.
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:	No specific symptoms have been conclusively established. Dust exposure may cause transient mechanical irritation.
Potential health effects:	See the route-specific information below. Toxicological information for the supplied material is limited.
Inhalation:	Dust may irritate the respiratory tract.
Skin:	Prolonged or repeated contact may cause mild irritation.
Eyes:	Dust may cause mechanical eye irritation.
Ingestion:	No specific adverse effects are known; ingestion of large amounts may cause discomfort.
Other information:	Handle using standard precautions for chemical substances. The absence of classification does not eliminate the need for good occupational hygiene.

Section 12. Ecological information

Ecotoxicity:	No adequate aquatic toxicity data are available. Avoid release to the environment.
Persistence and degradability:	No adequate data are available. Based on available information, the substance is not identified as PBT or vPvB.
Other adverse effects:	No data are available on endocrine-disrupting properties or other adverse environmental effects for the supplied material.

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. Dispose of contaminated packaging in accordance with applicable requirements; do not reuse unless appropriately decontaminated.

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 1.1; revision date 23-Nov-2026. Revised to retain only general grade specifications. No CLP hazard statements are required based on the available classification. 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.