Safety Data Sheet (SDS) - Bilberry Extract

According to Regulation (EC) No 1907/2006 (REACH), as amended by Regulation (EU) 2020/878
Version 1.0, 20-Oct-2026

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

Product name:	Bilberry Extract; Vaccinium myrtillus L. fruit extract, anthocyanidins >=25.0%
Recommended uses:	Botanical ingredient for professional formulation and R&D use
Uses advised against:	Uses not permitted by applicable legislation; household or non-professional use
Catalogue Number:	NST-8-21
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:	Not classified as hazardous according to Regulation (EC) No 1272/2008 (CLP), based on the available information for the supplied botanical extract. Hazard pictograms: None required. Signal word: None required. Hazard statements: None required. Precautionary measures: Avoid breathing dust. Minimise dust formation. Use adequate ventilation. Avoid contact with eyes and prolonged skin contact. Wash thoroughly after handling. Wear suitable eye protection and protective gloves where exposure is possible. Other hazards: Fine airborne organic dust may form a combustible dust atmosphere. The product is not identified as PBT or vPvB. Endocrine-disrupting properties have not been established.

Section 3. Composition/information on ingredients

Chemical name:	Bilberry (Vaccinium myrtillus L.) fruit extract, extract ratio 150:1, standardised to >=25.0% anthocyanidins. Extraction solvents: water and ethanol. Residual solvents must comply with Ph. Eur. 2.4.24.
Synonyms:	Vaccinium myrtillus fruit extract; Bilberry fruit dry extract; Blueberry extract
Chemical formula:	N/A - multicomponent botanical extract
Molecular weight:	N/A - multicomponent botanical extract
CAS No:	84082-34-8
EC No.	281-983-5

Section 4. First aid measures

Inhalation:	Move to fresh air and keep at rest. Obtain medical advice if coughing, breathing discomfort or other symptoms occur.
Skin:	Remove contaminated clothing. Wash skin thoroughly with soap and water. Obtain medical advice if irritation persists.
Eyes:	Rinse cautiously with water for several 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. 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, carbon dioxide and irritating fumes.

Section 6. Accidental release measures

Personal precautions:	Avoid dust formation and inhalation. Ensure adequate ventilation. Avoid contact with skin and eyes and wear the protective equipment described in Section 8. Remove ignition sources where dust is dispersed.
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 breathing dust and contact with eyes. Wear protective gloves and eye protection where exposure is possible. Wash thoroughly after handling.
Storage:	Store in a cool and dry place. Keep container tightly closed and protect from strong light and heat. Keep away from strong oxidising agents and moisture. Supplier specification shelf life: 24 months under recommended conditions.

Section 8. Exposure controls/personal protection

Engineering measures:	No product-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 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 where dust forms or ventilation is insufficient. Hands: protective gloves appropriate to the work conditions, 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, fine powder
Colour:	Purple
Odour:	Characteristic
Molecular Weight:	Not applicable - multicomponent botanical extract
Melting point:	No data available
pH:	No data available
Boiling point:	No data available; decomposition may occur before boiling
Solubility:	No reliable product-specific data available; expected to be dispersible or partly soluble in water
Explosive properties:	Not classified as explosive. Fine airborne organic dust may form a combustible dust atmosphere. Bulk density specification: not more than 0.8 g/mL.

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, 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 information, the classification criteria for acute toxicity are not met. Product-specific quantitative toxicity data are not available.
Skin corrosion/irritation:	Based on available information, the classification criteria for skin corrosion/irritation and serious eye damage/irritation are not met. Dust may cause mechanical irritation.
Respiratory or skin sensitisation:	Based on available information, the classification criteria for respiratory or skin sensitisation are not met. Botanical materials may cause individual hypersensitivity in susceptible persons.
CMR effects:	Based on available information, the classification criteria for germ-cell mutagenicity, carcinogenicity and reproductive toxicity are not met.
Signs and symptoms of exposure:	Dust may cause temporary mechanical irritation of the eyes or respiratory tract. Prolonged skin contact may cause mild dryness or discomfort.
Potential health effects:	No significant adverse health effects are expected under normal professional handling conditions. Treat any symptoms supportively.
Inhalation:	Dust may cause coughing, sore throat or breathing discomfort through mechanical irritation.
Skin:	Prolonged contact may cause mild dryness or discomfort. Not classified as a skin irritant.
Eyes:	Dust may cause temporary mechanical irritation, redness or tearing. Not classified as an eye irritant.
Ingestion:	May cause gastrointestinal discomfort if a significant amount is swallowed.
Other information:	Obtain medical advice if symptoms persist. Treat symptomatically.

Section 12. Ecological information

Ecotoxicity:	No adequate product-specific aquatic toxicity data are available. The product is not classified as hazardous to the aquatic environment. Avoid uncontrolled release.

Persistence and degradability:	Persistence, degradability, bioaccumulation and mobility data are not available for the complete botanical extract. The product is not identified as PBT or vPvB.
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 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. 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 has 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 botanical extract.

Section 16. Other information

Notice to reader:	Version 1.0; issue date 20-Oct-2026. Bilberry Extract, CAS 84082-34-8, is not classified as hazardous under CLP based on the available information for this Vaccinium myrtillus fruit extract standardised to >=25.0% anthocyanidins. ADR/RID, IMDG and IATA transport: not regulated. Product identity and quality properties derive from the applicable specification; batch-specific results, lot numbers and dates are excluded. 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.