Safety Data Sheet (SDS) - Citrus Aurantium Extract 95% Bioflavonoids

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:	Citrus Aurantium Extract; bioflavonoids >=95.0%; hesperidin >=90.0%
Recommended uses:	Ingredient for professional formulation and manufacturing use
Uses advised against:	Uses not permitted by applicable legislation; household or non-professional use
Catalogue Number:	N/A
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): Not classified as hazardous on the basis of available information.
No pictogram required	No pictogram required. No signal word. No hazard statements required. Precautionary advice: Avoid breathing dust. Avoid contact with eyes. Wash thoroughly after handling. Other hazards: Fine airborne organic dust may form a combustible dust atmosphere. The product does not meet the PBT or vPvB criteria on the basis of available information. Endocrine-disrupting properties have not been established.

Section 3. Composition/information on ingredients

Chemical name:	Citrus aurantium L. dried-fruit extract, CAS 72968-50-4; bioflavonoids >=95.0% by UV-VIS, including hesperidin >=90.0% by HPLC; synephrine <=1.0%. Extract ratio 50:1. Residual solvents comply with Ph. Eur. 2.4.24. Supplied-grade composition: 100% Citrus Aurantium Extract. Carrier / excipient: None.
Synonyms:	Bitter orange extract; Citrus aurantium fruit extract; Citrus bioflavonoids; Hesperidin-rich citrus extract
Chemical formula:	UVCB botanical extract; dominant hesperidin component: C28H34O15
Molecular weight:	Not applicable to the extract; hesperidin component: 610.56 g/mol
CAS No:	72968-50-4 (extract); hesperidin: 520-26-3
EC No.	Not reliably assigned for the extract grade

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:	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 after swallowing a significant amount. 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. Select extinguishing media 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. Avoid dispersing dust.

Section 6. Accidental release measures

Personal precautions:	Restrict access. Avoid dust formation, inhalation and contact with eyes. Ensure adequate ventilation. Wear suitable personal protective equipment.
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 and avoid breathing dust or contact with eyes. Wash thoroughly after handling. Keep away from ignition sources where airborne dust may form.

Storage:	Store in a cool, dry place. Keep the container tightly closed and protect from strong light and heat. Keep away from strong oxidising agents.

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 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:	Safety glasses with side shields; use tightly fitting goggles where significant dust exposure is possible.

Section 9. Physical and chemical properties

Physical state:	Solid, fine powder
Colour:	Light yellow to light brownish yellow
Odour:	Characteristic
Molecular Weight:	Not applicable to the extract
Melting point:	No reliable product-specific data available
pH:	No reliable product-specific data available
Boiling point:	No data available; botanical extract may decompose on heating
Solubility:	No reliable product-specific solubility data available
Explosive properties:	Not classified as explosive. Fine airborne organic dust may form a combustible dust atmosphere.

Section 10. Stability and reactivity

Stability:	Stable for 36 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 information, the classification criteria for acute toxicity are not met. Product-specific quantitative toxicity data are limited.
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.
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 mechanical irritation of the respiratory tract or eyes. Gastrointestinal discomfort may occur after ingestion of a significant amount.
Potential health effects:	No specific target-organ toxicity is known for the product. Toxicological properties of the complete botanical extract have not been fully evaluated.
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:	Dust may cause transient redness, tearing or discomfort through mechanical irritation.
Ingestion:	May cause gastrointestinal discomfort if a significant amount is swallowed.
Other information:	Treat symptomatically. Seek medical advice if symptoms persist or after significant exposure.

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 limited. The product has not been 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 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 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 1.2; revision date 23-Nov-2026. Section 3 was updated to state the supplied-grade composition and carrier/excipient: 100% Citrus Aurantium Extract; carrier/excipient: None. Hazard classification and transport information are unchanged. Revised to retain only general grade specifications. Available information indicates no CLP classification for this hesperidin-rich citrus bioflavonoid extract. ADR/RID, IMDG and IATA transport: not regulated. Product identity and quality properties derive from the applicable quality specification; This information is guidance for safe handling and is not a warranty of product properties. Users remain responsible for suitability and legal compliance.