Safety Data Sheet (SDS) - Hydroxytyrosol

According to Regulation (EC) No 1907/2006 (REACH), as amended by Regulation (EU) 2020/878
Version 1.1, 11-Nov-2026

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

Product name: Hydroxytyrosol
Recommended uses: Professional ingredient for formulation, manufacturing, analytical, and research and development (R&D) applications.
Uses advised against: Not intended for direct use by consumers as a medicinal product.
Catalogue Number: NST-10-16
Supplier: NATURE SCIENCE TECHNOLOGIES Ltd.
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Section 2. Hazards identification

Classification: Regulation (EC) No 1272/2008 (CLP): Skin Irritation, Category 2; Eye Irritation, Category 2.
H315: Causes skin irritation. H319: Causes serious eye irritation.

Label elements: Pictogram(s): GHS07 | Signal word: Warning



Hazard statements: H315 Causes skin irritation. H319 Causes serious eye irritation.
Precautionary statements: P261 Avoid breathing dust. P280 Wear protective gloves and eye/face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P332+P317 If skin irritation occurs: Get medical help. P362+P364 Take off contaminated clothing and wash it before reuse. 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+P317 If eye irritation persists: Get medical help. P501 Dispose of contents/container in accordance with applicable regulations.
Other hazards: PBT, vPvB, PMT/vPvM and endocrine-disrupting properties have not been established.

Section 3. Composition/information on ingredients

Chemical name: Hydroxytyrosol, Assay (on dried basis) ≥98.0% (HPLC).
Synonyms: Hydroxytyrosol
Chemical formula: $C_8H_{10}O_3$
Molecular weight: 154.16 g/mol
CAS No: 10597-60-1
EC No. Not assigned or verified

Section 4. First aid measures

Inhalation: Move to fresh air and keep at rest. Obtain medical advice if symptoms occur or persist.
Skin: Remove contaminated clothing. Wash skin thoroughly with soap and water. Obtain medical help if irritation, burns or rash occurs 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 unless directed by medical personnel. Contact a poison centre or doctor if unwell.

Section 5. Firefighting measures

Extinguishing media suitable: Water spray, alcohol-resistant foam, dry chemical powder or carbon dioxide. Avoid a direct high-pressure water jet.
Special protection of fire-fighters: Wear self-contained breathing apparatus and full protective equipment. Carbon monoxide, carbon dioxide and irritating fumes may form during combustion or thermal decomposition.

Section 6. Accidental release measures

Personal precautions: Avoid breathing vapour or mist and contact with skin or eyes. Ensure adequate ventilation. Wear the personal 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: Absorb with inert material and transfer to a closed, labelled container. Wash the affected area after collection.

Section 7. Handling and storage

Handling: Handle in a well-ventilated area. Avoid inhalation of vapour or mist and contact with skin, eyes and clothing. Keep away from ignition sources and strong oxidising agents.

Storage:	Store in a cool and dry place, keep away from heat and strong light. Supplier specification shelf life: 2 years under recommended conditions.

Section 8. Exposure controls/personal protection

Engineering measures:	No substance-specific occupational exposure limit has been established. Use closed handling or local exhaust ventilation where vapour or mist may form. 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 and wash contaminated clothing before reuse.
Personal protective equipment:	Respiratory protection: particulate-filter respirator suitable for the assessed dust exposure when 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; use chemical goggles or a face shield where serious eye damage is classified or significant dust exposure is possible.

Section 9. Physical and chemical properties

Physical state:	Paste liquid
Colour:	Light yellow
Odour:	Characteristic
Molecular Weight:	154.16 g/mol
Melting point:	No value specified in the NST quality specification
pH:	No data available
Boiling point:	No reliable product-specific data identified
Solubility:	No reliable product-specific quantitative data identified
Explosive properties:	The supplied liquid is not classified as explosive or flammable. No reliable product-specific data were identified for boiling point, flash point, vapour pressure, density or partition coefficient.

Section 10. Stability and reactivity

Stability:	Stable under recommended storage and normal handling conditions unless otherwise indicated by the classification. No hazardous polymerisation is expected.
Materials to avoid:	Strong oxidising agents; excessive heat, strong light and ignition sources.
Hazardous decomposition products:	Carbon monoxide, carbon dioxide and irritating fumes may form during combustion or thermal decomposition.

Section 11. Toxicological information

Acute toxicity:	Not classified for acute toxicity based on the assessed information. Quantitative product-specific endpoint data were not identified.
Skin corrosion/irritation:	Causes skin irritation (h315); causes serious eye irritation (h319).
Respiratory or skin sensitisation:	Not classified for respiratory or skin sensitisation based on the assessed information.
CMR effects:	Available information does not support classification for germ-cell mutagenicity, carcinogenicity or reproductive toxicity; complete studies were not identified.
Signs and symptoms of exposure:	Dust may cause coughing or mechanical discomfort. Toxic, irritating, corrosive or allergic effects may occur where indicated by the classification.
Potential health effects:	No classification is assigned for specific target-organ toxicity or aspiration hazard based on the assessed information.
Inhalation:	Dust may cause temporary respiratory discomfort; move the exposed person to fresh air. Obtain medical help where indicated by the classification or if symptoms persist.
Skin:	Causes skin irritation; wash after contact and obtain medical help if irritation persists.
Eyes:	Causes serious eye irritation; rinse promptly and obtain medical help if irritation persists.
Ingestion:	May cause gastrointestinal effects. Follow the immediate first-aid instructions in Section 4 and obtain medical help where indicated by the classification.
Other information:	Treat symptomatically. Seek prompt medical advice after significant exposure or if symptoms persist.

Section 12. Ecological information

Ecotoxicity:	Not classified as hazardous to the aquatic environment based on the assessed information. Quantitative product-specific ecotoxicity data were not identified; avoid uncontrolled release.
Persistence and degradability:	No reliable product-specific data were identified for degradability, bioaccumulation or mobility in soil.
Other adverse effects:	The product is not identified as PBT or vPvB based on available information. PMT/vPvM and endocrine-disrupting properties have not been established.

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 under ADR/RID based on the assessed classification and available transport information.
IMDG:	Not regulated as dangerous goods under IMDG; not identified as a marine pollutant.
IATA:	Not regulated as dangerous goods under IATA.

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 are stated 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 11-Nov-2026. Section 1 recommended uses and uses advised against were clarified to distinguish professional ingredient use from direct consumer use as a medicinal product; hazard classification and transport information are unchanged. Classification is based on the NST quality specification and the stated research sources: NST QS; retained exact-product SDS where available; current exact-CAS supplier safety information; PubChem identity; ECHA C&L information reviewed as supporting evidence. This information is guidance for safe handling and is not a warranty of product properties.