Safety Data Sheet (SDS) - Vitamin D3 Oil

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:	Vitamin D3 oil, 1,000,000 IU/g
Recommended uses:	Ingredient for professional formulation, food/feed, analytical and R&D use
Uses advised against:	Uses not permitted by applicable legislation; household or non-professional use
Catalogue Number:	NST-12-16
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): Acute Tox. 4 (oral), H302; STOT RE 2, H373 (kidneys, vascular system).
Hazard pictograms: GHS07, GHS08. Signal word: Warning. Hazard statements: H302 Harmful if swallowed. H373 May cause damage to organs (kidneys, vascular system) through prolonged or repeated exposure.
Precautionary statements: P260 Do not breathe mist/vapours/spray. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P330 Rinse mouth. P314 Get medical advice/attention if you feel unwell. P501 Dispose of contents/container in accordance with applicable regulations.
Other hazards: Spilled product creates a slipping hazard. PBT, vPvB and endocrine-disrupting properties have not been established for the supplied product.

Section 3. Composition/information on ingredients

Chemical name:	Cholecalciferol (Vitamin D3), approximately 2.5% w/w, calculated from the specification of >=1,000,000 IU/g; CAS 67-97-0, EC 200-673-2. Remaining carrier oil and any stabilisers are not specified in the quality documentation.
Synonyms:	Vitamin D3 oil; Cholecalciferol concentrate; Colecalciferol
Chemical formula:	C27H44O (cholecalciferol component)
Molecular weight:	384.60 g/mol (cholecalciferol component)
CAS No:	67-97-0 (cholecalciferol component)
EC No.	200-673-2 (cholecalciferol component)

Section 4. First aid measures

Inhalation:	Move to fresh air. Keep at rest and seek medical attention if symptoms occur.
Skin:	Remove contaminated clothing. Wash thoroughly with soap and water. Obtain medical advice if irritation or other symptoms occur.
Eyes:	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Obtain medical advice if irritation persists.
Ingestion:	Rinse mouth and drink water. Do not induce vomiting. Call a POISON CENTER or doctor if unwell. 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. Do not use a direct water jet.
Special protection of fire-fighters:	Wear self-contained breathing apparatus and chemical-protective clothing. Fire may produce carbon oxides and harmful vapours. Collect contaminated fire water separately.

Section 6. Accidental release measures

Personal precautions:	Ensure ventilation. Avoid breathing mist/vapours and contact with skin, eyes or clothing. Wear the protective equipment described in Section 8. Eliminate ignition sources.
Environmental precautions:	Prevent entry into drains, surface water, groundwater and soil. Notify authorities if a significant release reaches the environment.
Methods for cleaning up:	Contain with inert absorbent material such as sand or universal binder. Collect in a closed, labelled container for disposal. Clean residue thoroughly; spilled product is slippery.

Section 7. Handling and storage

Handling:	Handle with adequate ventilation. Avoid ingestion, mist formation and contact with skin or eyes. Keep away from heat, sparks and open flame. Take precautions against static discharge.
Storage:	Store tightly closed in a cool, dry and well-ventilated place. Protect from 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. Provide effective general or local ventilation and eyewash facilities.
Hygiene measures:	Wash hands and face before breaks and after work. Do not eat, drink or smoke in work areas. Keep work clothing separate and remove contaminated clothing.
Personal protective equipment:	Respiratory: suitable organic-vapour/particulate protection if mist forms or ventilation is insufficient. Hands: chemical-resistant gloves appropriate to the task, e.g. nitrile.
Skin and body:	Closed protective work clothing appropriate to the scale and duration of exposure. Use an apron or chemical-protective clothing where splashing is possible.
Eyes:	Safety glasses with side shields; use tightly fitting goggles or face protection where splashing may occur.

Section 9. Physical and chemical properties

Physical state:	Viscous oily liquid
Colour:	Light yellow to yellow
Odour:	No rancid odour; mild/characteristic
Molecular Weight:	384.60 g/mol (cholecalciferol component)
Melting point:	No product-specific data available
pH:	Not applicable
Boiling point:	No product-specific data available; may decompose before boiling
Solubility:	No product-specific data available; expected to be practically insoluble in water
Explosive properties:	Not classified as explosive. Combustible organic liquid; avoid ignition sources and static discharge.

Section 10. Stability and reactivity

Stability:	Stable under recommended storage and normal handling conditions. Sensitive to light, heat and atmospheric oxygen.
Materials to avoid:	Strong oxidising agents, heat, direct light, sparks, open flame and prolonged exposure to air.
Hazardous decomposition products:	Carbon monoxide, carbon dioxide and harmful or irritating vapours may form during combustion or thermal decomposition.

Section 11. Toxicological information

Acute toxicity:	Harmful if swallowed (Acute Tox. 4, H302). Cholecalciferol oral LD50 (rat): 35-47 mg/kg; inhalation LC50 (rat, 4 h): approximately 0.13-0.38 mg/L; dermal LD50 (rat): 61-185 mg/kg. Values apply to the active component.
Skin corrosion/irritation:	Based on available information, the product is not expected to be irritating to skin or eyes. Direct contact may cause transient discomfort.
Respiratory or skin sensitisation:	Based on available information, classification criteria for respiratory or skin sensitisation are not met. The unspecified stabiliser composition should be confirmed by the manufacturer.
CMR effects:	Based on available data, classification criteria for germ-cell mutagenicity, carcinogenicity and reproductive toxicity are not met.
Signs and symptoms of exposure:	Ingestion may cause toxic effects. Prolonged or repeated exposure may damage the kidneys and vascular system. Mist may cause respiratory discomfort.
Potential health effects:	Principal identified hazards are acute oral toxicity and target-organ effects following prolonged or repeated exposure.
Inhalation:	Mist or vapour may cause respiratory discomfort; move the exposed person to fresh air.
Skin:	Prolonged contact may cause discomfort; wash contaminated skin thoroughly.
Eyes:	Splashes may cause temporary redness or discomfort; rinse promptly with water.
Ingestion:	Harmful if swallowed. Rinse mouth and contact a POISON CENTER or doctor if unwell.
Other information:	May cause damage to the kidneys and vascular system through prolonged or repeated exposure (H373).

Section 12. Ecological information

Ecotoxicity:	No adequate product-specific aquatic toxicity data are available. Avoid release to drains and the environment. Cholecalciferol has acute and chronic aquatic M-factors of 1 in supplier classification data.
Persistence and degradability:	The carrier oil is expected to be biodegradable. Cholecalciferol is not readily biodegradable but is not expected to bioaccumulate based on available supplier information.

Other adverse effects:	The product is not known to meet PBT or vPvB criteria. Endocrine-disrupting properties have not been established.

Section 13. Disposal considerations

Product:	Dispose of contents through a licensed hazardous-waste contractor in accordance with local, regional and national requirements. Do not discharge to drains.
Contaminated packaging:	Empty completely. Treat contaminated packaging as the product. Recycle only thoroughly cleaned 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 assessed under Regulation (EC) No 1272/2008 (CLP), as amended. A chemical safety assessment has not been carried out by the supplier for this mixture.

Section 16. Other information

Notice to reader:	Version 1.2; revision date 23-Nov-2026. Revised to retain only general grade specifications. Approved GHS pictogram artwork was applied with corrected aspect ratio and spacing. Chemical classification and transport wording were not changed. Classification is based on safety information for a comparable Vitamin D3 oil containing 1-3% cholecalciferol and on the supplied potency specification. Product identity and quality properties derive from the applicable specification. Carrier oil and stabiliser composition were not specified and should be confirmed before final regulatory release. This information is guidance for safe handling and is not a warranty of product properties.