Safety Data Sheet (SDS) - Bisdemethoxycurcumin

According to Regulation (EC) No 1907/2006 (REACH), as amended by Regulation (EU) 2020/878
Version 1.0, 25-Oct-2026

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

Product name:	Bisdemethoxycurcumin
Recommended uses:	Professional analytical reference, laboratory, formulation and R&D use
Uses advised against:	Consumer handling; food, medicinal, household or other unapproved use
Catalogue Number:	NST-12-73
Supplier:	NATURE SCIENCE TECHNOLOGIES Ltd.
	Email: inquiries@nstchemicals.com; Website: www.nstchemicals.com

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: GHS07 | Signal word: Warning



Hazard statements: H315 Causes skin irritation. H319 Causes serious eye irritation.
Precautionary statements: P264 Wash thoroughly after handling. P280 Wear protective gloves/eye protection. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing. P332+P317 If skin irritation occurs: Get medical help. P337+P317 If eye irritation persists: Get medical help. P362+P364 Take off contaminated clothing and wash it before reuse.
Other hazards: Fine airborne organic dust may cause mechanical irritation and may form a combustible dust atmosphere. PBT, vPvB, PMT/vPvM and endocrine-disrupting properties have not been established.

Section 3. Composition/information on ingredients

Chemical name:	Bisdemethoxycurcumin, not less than 98.0% (supplier specification).
Synonyms:	Curcumin III; didemethoxycurcumin; bis(p-hydroxycinnamoyl)methane
Chemical formula:	C19H16O4
Molecular weight:	308.33 g/mol
CAS No:	33171-05-0
EC No.	Not uniquely verified; ECHA-linked identifiers reported

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 advice if irritation 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. Treat symptomatically.

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. Prevent airborne dust accumulation.

Section 6. Accidental release measures

Personal precautions:	Avoid breathing dust 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:	Collect mechanically or with a HEPA-filtered vacuum without generating dust. Place in a closed, labelled container for disposal. Wash the affected area after collection.

Section 7. Handling and storage

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

Storage:	Store tightly closed in a cool, dry place. Protect from strong light and heat. Supplier specification shelf life: 24 months 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 dust 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 where dust exposure is significant.

Section 9. Physical and chemical properties

Physical state:	Solid, powder
Colour:	Yellow-orange
Odour:	No reliable product-specific data identified
Molecular Weight:	308.33 g/mol
Melting point:	No value specified in the NST quality specification
Flash point:	No data available
Boiling point:	No reliable product-specific data identified
Solubility:	Soluble in DMF and DMSO; limited quantitative data available; water solubility not established
Explosive properties:	Not classified as explosive or flammable. Further data for boiling point, flash point, vapour pressure, density, partition coefficient and particle characteristics are not available.

Section 10. Stability and reactivity

Stability:	Stable under recommended storage and normal handling conditions. No hazardous reactions are expected under normal use.
Materials to avoid:	Strong oxidising agents; excessive heat, strong light and conditions that generate or ignite 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:	Not classified for acute toxicity based on available information. Quantitative product-specific endpoint data were not identified.
Skin corrosion/irritation:	Causes skin irritation (Skin Irrit. 2, H315) and serious eye irritation (Eye Irrit. 2, H319).
Respiratory or skin sensitisation:	Not classified for respiratory or skin sensitisation on available 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. Irritation or an allergic skin response may occur where indicated by the classification.
Potential health effects:	No classification is assigned for specific target-organ toxicity or aspiration hazard on available information.
Inhalation:	Dust may cause temporary respiratory discomfort; move the exposed person to fresh air.
Skin:	Causes skin irritation. Wash after contact and obtain medical advice if irritation occurs or persists.
Eyes:	Dust or direct contact may cause irritation; rinse promptly and thoroughly with water.
Ingestion:	May cause gastrointestinal discomfort. Rinse mouth and contact a poison centre or doctor if unwell.
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 on available information. Quantitative ecotoxicity data were not identified; avoid uncontrolled release.
Persistence and degradability:	No reliable data were identified for degradability, bioaccumulation or mobility in soil.
Other adverse effects:	The product is not identified as PBT or vPvB 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
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 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 1.0; issue date 25-Oct-2026. Classification is based on the NST quality specification and the ECHA C&L notification summary available through PubChem. H315: Causes skin irritation. H319: Causes serious eye irritation. A supplier-reported H335 classification was not assigned because it is inconsistent with the available ECHA notification summary. This information is guidance and not a warranty of product properties.