



SAFETY DATA SHEET (SDS)

Prepared in accordance with the Globally Harmonized System (GHS) and Regulation (EC) No. 1907/2006 (REACH, as amended)

SECTION 1: Identification

Item	Details
Product Name	Geranyl Butyrate Natural
Odour Description	Milky, fruity-floral, sweet, rosy, waxy and tropical
Alternative Names	Geranyl Butanoate, Geraniol Butyrate, Geranyl Butyrate Natural
Chemical Name	3,7-Dimethyl-2,6-octadien-1-yl butanoate
CAS Number	106-29-6
EC Number	203-381-3
Molecular Formula	$C_{14}H_{24}O_2$
Molecular Weight	224.34 g/mol
Product Type	Natural-origin aroma chemical
Purity	Typically not less than 95%; batch specification takes precedence
Recommended Use	Professional perfumery, fragrance compounds, cosmetics, soaps and flavour or aroma applications where legally permitted
Uses Advised Against	Internal consumption as supplied, direct undiluted application, uncontrolled household use and use by children

Geranyl butyrate is identified under CAS 106-29-6 and EC 203-381-3. Natural food-grade commercial material is commonly supplied at a minimum purity of approximately 95%.

SUPPLIER DETAILS

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SECTION 2: HAZARD IDENTIFICATION

Classification According to UN GHS



Hazard Class	Category	Hazard Statement
Hazardous to the aquatic environment – acute	Category 2	H401: Toxic to aquatic life
Hazardous to the aquatic environment – chronic	Category 2	H411: Toxic to aquatic life with long-lasting effects

A current natural geranyl butyrate SDS classifies the substance as Aquatic Acute 2 and Aquatic Chronic 2.

Signal Word

No signal word is assigned solely for the above UN GHS environmental classification.

Hazard Pictogram

- GHS09 – Environment

Hazard Statements

- H401: Toxic to aquatic life.
- H411: Toxic to aquatic life with long-lasting effects.

Precautionary Statements

- P273: Avoid release to the environment.
- P280: Wear protective gloves and eye protection during professional handling.
- P391: Collect spillage.
- P501: Dispose of contents and container in accordance with applicable regulations.

Additional Handling Hazards

Some supplier SDS documentation prepared under US OSHA criteria additionally identifies:

- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H335: May cause respiratory irritation.

These additional classifications may reflect supplier-specific testing, purity or regulatory interpretation.

Accordingly:



- Avoid direct skin and eye contact.
- Avoid breathing concentrated vapour, mist or aerosol.
- Use adequate ventilation.
- Wear suitable protective gloves and eye protection.

Other Hazards

The substance is not listed as a Substance of Very High Concern under the cited supplier's REACH assessment.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance

Component	CAS Number	EC Number	Concentration
Geranyl Butyrate Natural	106-29-6	203-381-3	Typically 95–100%
Naturally occurring related aroma constituents	Various	Various	Balance, where applicable

Chemical Description

Geranyl butyrate is the butanoic-acid ester of geraniol.

The natural-origin designation refers to the source and manufacturing route. It does not alter the chemical identity or applicable hazard classification.

SECTION 4: FIRST-AID MEASURES

Inhalation

Move the affected person to fresh air.

Keep them at rest in a position comfortable for breathing.

Obtain medical advice if coughing, dizziness, headache, nausea or respiratory discomfort persists.

Skin Contact

Remove contaminated clothing.

Wash the affected area thoroughly with soap and plenty of water.



If irritation, redness or discomfort occurs, seek medical advice.

Wash contaminated clothing before reuse.

Eye Contact

Rinse cautiously with clean water for at least 15 minutes.

Remove contact lenses when present and easy to do. Continue rinsing.

Obtain medical advice if irritation persists.

Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting unless directed by qualified medical personnel.

Seek medical advice if a significant quantity has been swallowed or symptoms occur.

Never give anything by mouth to an unconscious person.

Most Important Symptoms and Effects

Possible symptoms include:

- Skin irritation
- Eye redness or discomfort
- Headache or respiratory irritation following excessive vapour exposure
- Nausea or gastrointestinal discomfort following ingestion

Advice to Medical Personnel

Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

- Carbon dioxide
- Dry chemical powder
- Alcohol-resistant foam
- Water spray



Unsuitable Extinguishing Media

Do not use a direct high-pressure water jet because it may spread the liquid.

Specific Fire Hazards

The product has a relatively high flash point but may burn when sufficiently heated.

Vapours may form combustible or explosive mixtures with air under certain conditions.

Thermal decomposition or combustion may produce:

- Carbon monoxide
- Carbon dioxide
- Smoke
- Irritating organic vapours

Protective Equipment for Firefighters

Wear self-contained breathing apparatus and full protective clothing.

Cool unopened or fire-exposed containers with water spray.

Prevent contaminated fire-fighting water from entering drains or waterways.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions

- Ensure adequate ventilation.
- Avoid breathing vapour, mist or aerosol.
- Avoid skin and eye contact.
- Wear chemical-resistant gloves and eye protection.
- Remove unnecessary personnel.
- Eliminate ignition sources where appropriate.

Environmental Precautions

Prevent entry into:

- Drains
- Sewers
- Surface water



- Groundwater
- Soil

The material is toxic to aquatic life with long-lasting effects.

Containment and Cleaning

Contain and absorb the spill using inert, non-combustible material such as:

- Sand
- Vermiculite
- Diatomaceous earth
- Commercial oil absorbent

Transfer the collected material to a suitable, labelled waste container.

Clean the affected surface with detergent and water while preventing contaminated wash water from entering drains.

SECTION 7: HANDLING AND STORAGE

Safe Handling

- Handle in a well-ventilated area.
- Avoid breathing concentrated vapours or aerosol.
- Avoid direct contact with skin and eyes.
- Wear suitable gloves and eye protection.
- Keep containers tightly closed when not in use.
- Use clean, dry and odour-free equipment.
- Do not eat, drink or smoke while handling.
- Wash hands thoroughly after use.
- Avoid release to the environment.
- Do not use internally as supplied.

Storage Conditions

Store:

- In the original, tightly closed container
- In a cool, dry and well-ventilated area
- Away from direct sunlight
- Away from excessive heat
- Away from strong oxidising agents



- Separately from food and beverages
- Out of reach of children

Recommended Storage Temperature

Store at approximately 10–25 °C, unless otherwise stated in the batch documentation.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits

No specific occupational exposure limit has been established for geranyl butyrate.

Engineering Controls

Provide adequate general ventilation.

Use local exhaust ventilation where concentrated vapour, mist or aerosol may be generated.

Ensure eyewash facilities are available near the handling area.

Personal Protective Equipment

Protection Type	Recommendation
Eye protection	Chemical splash goggles
Hand protection	Chemical-resistant nitrile gloves
Skin protection	Laboratory coat, apron or suitable work clothing
Respiratory protection	Normally unnecessary with adequate ventilation; use an approved organic-vapour respirator where ventilation is insufficient
Hygiene measures	Wash hands and exposed skin after handling

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Typical Value or Description
Physical state	Liquid
Appearance	Clear, colourless to pale yellow liquid
Odour	Sweet, fruity, rosy, waxy, milky and tropical
Odour strength	Medium
Molecular formula	C ₁₄ H ₂₄ O ₂
Molecular weight	224.34 g/mol
Melting/freezing point	Approximately –11 °C



Boiling point	Approximately 150°C under the cited test conditions
Flash point	Approximately 98°C
Relative density at 20°C	Approximately 0.90
pH	Approximately 7.4 under the cited test method
Water solubility	Insoluble or practically insoluble
Solubility in alcohol and perfumery oils	Soluble
Log Pow	Approximately 5.46
Dynamic viscosity at 20°C	Approximately 37.61 mPa·s
Kinematic viscosity at 40°C	Approximately 20.5 mm²/s
Explosive properties	Not classified as explosive
Oxidising properties	Not classified as oxidising
Solvent content	0% for undiluted material

The cited natural geranyl butyrate SDS reports a flash point of 98°C, density of approximately 0.90 g/cm³ and log Pow of 5.46.

Batch-specific values must take precedence.

SECTION 10: STABILITY AND REACTIVITY

Reactivity

No hazardous reaction is expected when handled and stored correctly.

Chemical Stability

Stable under normal ambient storage conditions.

Possibility of Hazardous Reactions

No known hazardous reactions under recommended conditions.

Conditions to Avoid

- Excessive heat
- Open flames
- Sparks
- Prolonged exposure to air
- Direct sunlight



- Contamination with incompatible materials

Incompatible Materials

Avoid strong oxidising agents.

Hazardous Decomposition Products

Combustion or severe heating may produce carbon monoxide, carbon dioxide and irritating organic vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

Available data indicate relatively low acute toxicity:

Exposure Route	Result
Oral LD ₅₀ , rat	Approximately 10,660 mg/kg
Dermal LD ₅₀ , rabbit	Greater than 5,000 mg/kg

These values are reported in a current natural geranyl butyrate SDS citing REACH dossier data.

Skin Corrosion/Irritation

Current European-oriented supplier data indicate that classification criteria are not met.

Nevertheless, another supplier classifies the product as a skin irritant. Avoid prolonged or repeated contact.

Serious Eye Damage/Irritation

Current European-oriented supplier data indicate that classification criteria are not met.

Another supplier classifies it as causing serious eye irritation. Eye protection is therefore recommended.

Skin Sensitisation

Available data indicate that classification criteria are not met.

Respiratory Irritation



High vapour or aerosol concentrations may cause discomfort. One US supplier classifies it for respiratory irritation.

Germ-Cell Mutagenicity

Classification criteria are not met based on available data.

Carcinogenicity

Classification criteria are not met based on available data.

Reproductive Toxicity

Classification criteria are not met based on available data.

Specific Target-Organ Toxicity

Classification criteria are not met under the cited European supplier assessment.

Aspiration Hazard

Classification criteria are not met based on available data.

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity

Toxic to aquatic life with long-lasting effects.

Representative reported data include:

Test	Result
Fish LC ₅₀ , 96 hours	Approximately 21.38 mg/L
Algae ErC ₅₀	Approximately 2 mg/L
Daphnia EC ₅₀ , 48 hours	Approximately 5.1 mg/L

Persistence and Degradability

Reported biodegradation is approximately 73.8% after 28 days, indicating that the substance is readily biodegradable according to the cited OECD criteria.



Bioaccumulative Potential

The reported log Pow of approximately 5.46 indicates potential for bioaccumulation.

Mobility in Soil

No complete data are available.

The low water solubility indicates likely adsorption to soil and organic matter.

PBT and vPvB Assessment

No complete assessment is available in this document.

Other Adverse Effects

Do not allow the concentrated product to enter drains, surface water or soil.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of the product through an authorised chemical-waste contractor.

- Do not discharge into drains or waterways.
- Do not dispose of with ordinary household waste.
- Avoid contamination of soil and groundwater.
- Dispose of contaminated absorbent as chemical waste.
- Empty containers may retain residue.
- Handle contaminated packaging in the same manner as the substance.
- Recycle clean, uncontaminated packaging where legally permitted.

SECTION 14: TRANSPORT INFORMATION

The material may be regulated for transport because of its aquatic environmental classification.

Transport Information	Classification
UN Number	UN 3082
UN Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S.
Technical Name	Geranyl Butyrate
Transport Hazard Class	9



Packing Group	III
Environmental Hazard	Applicable according to mode and package
IMDG	UN 3082, Class 9, Packing Group III
IATA/ICAO	UN 3082, Class 9, Packing Group III
Limited Quantity – IMDG	Up to 5 L, subject to current rules
Excepted Quantity	E1

A current natural geranyl butyrate SDS assigns UN 3082, Class 9 and Packing Group III for marine and air transport.

The applicable package-size exemptions and current carrier requirements must be verified before dispatch.

SECTION 15: REGULATORY INFORMATION

This SDS has been structured with reference to:

- Regulation (EC) No. 1907/2006 – REACH
- Regulation (EC) No. 1272/2008 – CLP
- United Nations Globally Harmonized System
- Applicable ADR, RID, IMDG and IATA transport provisions
- Applicable fragrance, cosmetic and flavour legislation

The material is not identified as an SVHC under the supplier information reviewed.

Natural-origin status does not exempt the material from:

- Hazard communication
- IFRA assessment
- Finished-product safety evaluation
- Applicable allergen declaration
- Transport requirements
- Regional chemical or cosmetic legislation

SECTION 16: OTHER INFORMATION

Full Hazard Statements

- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H335: May cause respiratory irritation.



- H401: Toxic to aquatic life.
- H411: Toxic to aquatic life with long-lasting effects.

H315, H319 and H335 are included as supplier-dependent additional classifications rather than the primary UN GHS classification used in Section 2.

Document Information

Item	Details
Document Type	Material Safety Data Sheet / Safety Data Sheet
Product	Geranyl Butyrate Natural
Odour Profile	Milky, fruity-floral
CAS Number	106-29-6
Issue Date	17 July 2026
Revision Number	01
Supersedes	New document
Intended Users	Professional, commercial and industrial users

Natural-Origin Qualification

The designation Natural must be supported by appropriate supplier documentation describing the raw-material origin and manufacturing process.

Natural origin does not mean that the substance is non-hazardous or suitable for direct application.

Disclaimer

The information in this SDS is based on available technical and supplier documentation for geranyl butyrate.

Hazard classifications vary between suppliers and regulatory systems. The original manufacturer's current SDS and the actual batch specification must take precedence.

This document provides guidance for safe handling, storage, transport and professional use. It does not constitute a warranty of product properties or suitability for a particular application.

The user is responsible for:

- Determining suitability for the intended use
- Completing the required IFRA and safety assessments
- Confirming the applicable transport classification
- Complying with all relevant legal and regulatory requirements



This product is not intended for internal consumption as supplied and must be stored securely away from children.

Authorised by:
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Director