



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 OF THE SUBSTANCE AND COMPANY

1.1 Product Identifier

Parameter	Details
Product Name	Natural Gamma Octalactone
Chemical Name	Gamma-Octalactone
Synonyms	γ -Octalactone, 4-Octanolide, 5-Butyloxolan-2-one
INCI Name	Octalactone
CAS Number	104-50-7
EC Number	203-208-1
FEMA Number	2796
Molecular Formula	$C_8H_{14}O_2$
Molecular Weight	142.20 g/mol
Product Type	Natural Aroma Chemical

Natural Gamma Octalactone is a naturally derived lactone widely used in fine fragrance and flavour applications, with a characteristic creamy, fatty coconut aroma.

1.2 Recommended Uses

- Fine fragrance
- Cosmetic ingredient
- Soap manufacture
- Candles
- Home fragrance
- Air care
- Professional perfumery

1.3 Uses Advised Against

- Internal consumption unless food-grade approved
- Pharmaceutical use
- Undiluted skin application

1.4 Supplier



Aromology Trading LLC
G05 Al Ghazal Building
Nadd Al Hamar
Dubai, United Arab Emirates

Website: www.aromology.com
Email: info@aromology.com
Telephone: +971 505197601

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification According to Regulation (EC) No. 1272/2008

Hazard Class	Category
Skin Irritation	Category 2
Hazardous to the Aquatic Environment (Chronic)	Category 3

The latest supplier SDS classifies Natural Gamma Octalactone as Skin Irrit. 2 (H315) and Aquatic Chronic 3 (H412).

Signal Word

Warning

Hazard Statements

- H315 Causes skin irritation.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

- P264 Wash thoroughly after handling.
- P273 Avoid release to the environment.
- P280 Wear protective gloves and eye protection.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P332+P313 If skin irritation occurs: Get medical advice.
- P362+P364 Remove contaminated clothing and wash before reuse.
- P501 Dispose of contents/container in accordance with local regulations.

2.3 Other Hazards

- Not classified as PBT or vPvB.
- Not classified as an oxidising substance.
- Avoid prolonged contact with skin.



- Avoid unnecessary environmental release.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS	EC	Concentration
Natural Gamma Octalactone	104-50-7	203-208-1	≥99%

SECTION 4: FIRST AID MEASURES

Inhalation

Move affected person to fresh air. Obtain medical advice if symptoms persist.

Skin Contact

Wash immediately with soap and water. Remove contaminated clothing.

Eye Contact

Flush cautiously with water for at least 15 minutes. Seek medical attention if irritation continues.

Ingestion

Rinse mouth with water. Do not induce vomiting unless instructed by medical personnel. Obtain medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media:

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

Hazardous combustion products:

- Carbon monoxide
- Carbon dioxide



Firefighters should wear self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Avoid contact with skin.
 - Prevent entry into drains.
 - Absorb using sand, vermiculite or inert absorbent.
 - Dispose according to local regulations.
-

SECTION 7: HANDLING AND STORAGE

Handle with adequate ventilation.

Avoid:

- Skin contact
- Eye contact
- Environmental release

Store:

- Between 15–25 °C
 - In tightly closed original containers
 - Away from direct sunlight
 - Away from oxidising materials
-

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Local exhaust ventilation recommended.

Personal Protective Equipment

- Nitrile gloves
- Safety glasses
- Protective clothing



Respiratory Protection

Organic vapour respirator where ventilation is insufficient.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Typical Value
Appearance	Colourless to pale yellow liquid
Odour	Sweet, creamy, fatty, coconut
Relative Density (20 °C)	0.970–0.980
Refractive Index (20 °C)	1.443–1.447
Boiling Point	Approximately 234 °C
Flash Point	Approximately 113 °C
Water Solubility	Slightly soluble
Solubility in Alcohol	Soluble

Representative physical data are consistent with supplier SDS and published reference data.

SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Avoid:

- Strong oxidising agents
- Excessive heat
- Open flames

Hazardous decomposition products:

- Carbon monoxide
 - Carbon dioxide
-

SECTION 11: TOXICOLOGICAL INFORMATION

Possible routes of exposure:



- Skin
- Eyes
- Inhalation
- Ingestion

Potential effects:

- Skin irritation.
- Mild eye irritation.
- Large quantities may cause gastrointestinal discomfort if swallowed.

SECTION 12: ECOLOGICAL INFORMATION

- Harmful to aquatic organisms with long-lasting effects.
- Avoid release into waterways.
- Not readily expected to bioaccumulate significantly under normal conditions.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose through an authorised chemical waste contractor.

Do not discharge into drains or natural watercourses.

SECTION 14: TRANSPORT INFORMATION

Item	Status
UN Number	Not regulated
Proper Shipping Name	Not regulated
Transport Hazard Class	Not regulated
Packing Group	Not applicable
Marine Pollutant	No

Natural Gamma Octalactone is generally not regulated as a dangerous good for ADR, IMDG or IATA transport.



SECTION 15: REGULATORY INFORMATION

Prepared in accordance with:

- REACH Regulation (EC) No. 1907/2006
 - Regulation (EU) 2020/878
 - CLP Regulation (EC) No. 1272/2008
 - Cosmetic Regulation (EC) No. 1223/2009
 - Current IFRA Standards
-

SECTION 16: OTHER INFORMATION

Storage Recommendation

Store:

- Between 15–25 °C
- In tightly sealed containers
- Protected from light and moisture
- Away from oxidising agents

Shelf Life

24 months under recommended storage conditions.

Disclaimer

The information contained in this Safety Data Sheet is based on representative supplier data and current regulatory knowledge. It is intended solely for health, safety and environmental guidance and should not be construed as a guarantee of specific product properties.

AUTHORISED BY

Fozia Khot

Director

Aromology Trading LLC