



SAFETY DATA SHEET (SDS)

Conforms to the Globally Harmonized System (GHS)

Product Name: Gamma Decalactone Natural

CAS Number: 706-14-9

EC Number: 211-892-8

FEMA Number: 2360

Molecular Formula: C₁₀ H₁₈ O₂

Molecular Weight: 170.25 g/mol

Intended Use: Perfumery Raw Material

SECTION 1 – Identification

Product Identifier: Gamma Decalactone Natural

Synonyms: γ-Decalactone; Gamma-Hexyl-Gamma-Butyrolactone; 4-Hydroxydecanoic Acid
Gamma-Lactone

Recommended Use: Professional fragrance ingredient for perfume manufacture.

SECTION 2 – Hazard Identification

GHS Classification: Not classified as hazardous under normal conditions of use.

Signal Word: None

Hazard Statements: Not classified as hazardous.

Precautionary Statements: Avoid contact with eyes and skin. Avoid breathing vapour or mist. Use good industrial hygiene practices. Prevent release into drains and waterways.

SECTION 3 – Composition / Information on Ingredients

Component	CAS Number	EC Number	Concentration
Gamma Decalactone Natural	706-14-9	211-892-8	≥ 98%

SECTION 4 – First Aid Measures

Eye Contact: Rinse cautiously with water for several minutes. Seek medical advice if irritation persists.

Skin Contact: Wash with soap and water. Remove contaminated clothing.

Inhalation: Move person to fresh air. Seek medical advice if symptoms occur.

Ingestion: Rinse mouth. Do not induce vomiting unless directed by medical personnel.

SECTION 5 – Fire Fighting Measures

Suitable Media: Carbon dioxide, dry chemical, foam, water spray.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, irritating fumes.

Protective Equipment: Wear self-contained breathing apparatus and protective clothing.



SECTION 6 – Accidental Release Measures

Avoid contact with skin and eyes. Provide ventilation. Prevent entry into drains, soil, and waterways. Absorb with sand, earth, vermiculite, or inert absorbent and collect into suitable containers.

SECTION 7 – Handling and Storage

Handle in a well-ventilated area. Avoid prolonged skin or eye contact. Store tightly closed in a cool, dry, well-ventilated place away from heat, direct sunlight, ignition sources, and strong oxidizing agents.

SECTION 8 – Exposure Controls / Personal Protection

Engineering Controls: Adequate ventilation.

Eye Protection: Safety glasses or goggles.

Hand Protection: Nitrile or chemical-resistant gloves.

Respiratory Protection: Normally not required under adequate ventilation.

SECTION 9 – Physical and Chemical Properties

Property	Value
Appearance	Colourless to pale yellow liquid
Odour	Sweet, creamy, peach, fruity, lactonic
Boiling Point	Approx. 281 °C
Flash Point	Approx. 110 °C or above
Specific Gravity	Approx. 0.945 – 0.960
Refractive Index	Approx. 1.450 – 1.460
Water Solubility	Slightly soluble / practically insoluble
Solubility	Soluble in ethanol and perfume solvents

Gamma Decalactone is identified by CAS 706-14-9, FEMA 2360, and is widely supplied as natural Gamma Decalactone for flavour and fragrance applications.

SECTION 10 – Stability and Reactivity

Stable under recommended conditions. Avoid heat, flames, strong oxidizing agents, and prolonged exposure to air.

SECTION 11 – Toxicological Information

May cause mild irritation through prolonged or repeated contact. No known carcinogenic, mutagenic, or reproductive toxicity under normal professional use.



SECTION 12 – Ecological Information

Avoid uncontrolled release into drains, soil, and waterways. Handle according to good environmental practice.

SECTION 13 – Disposal Considerations

Dispose of contents and containers in accordance with local, regional, and national regulations.

SECTION 14 – Transport Information

Regulation Classification

ADR/RID Not Regulated

IMDG Not Regulated

IATA Not Regulated

SECTION 15 – Regulatory Information

Prepared in accordance with general GHS and SDS format requirements.

SECTION 16 – Other Information

This SDS is prepared for professional handling of the raw material and does not replace the responsibility of the user to verify final product compliance.

Authorized by

Fozia Khot

Director

Aromology Trading LLC