



Material Safety Data Sheet

1. Substance

Product Name gamma UNDECALACTONE, 99+%, FCC
Product Number F03091F0990K

2. Composition

Substance Name CAS # SARA 313
gamma UNDECALACTONE 104-67-6 No
Formula: C11 H20 O2

Synonyms: Aldehyde C-14 peach * 2(3H)-Furanone,5-heptyldihydro- * gamma-Heptylbutyrolactone * gamma-n-Heptylbutyrolactone * 4-Hydroxyundecanoic acid lactone * 4-Hydroxyundecanoic acid, gamma-lactone * Peach aldehyde * Peach lactone * Persicol * gamma-Undecalactone * gamma-Undecanolactone * 1,4-Undecanolide * gamma-Undecanolide * gamma-Undekalakton (Czech)
RTECS Number: YQ2485000

3. Hazards Information

EMERGENCY OVERVIEW

Flammable. Irritant.

Irritating to eyes, respiratory system and skin.

HMIS RATING NEPA RATING

HEALTH: 2 2

FLAMMABILITY: 1 1

REACTIVITY: 0 0

For additional information on toxicity, please refer to Section 11.

4. First aid measures

ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing give artificial respiration.

If breathing is difficult, give oxygen.

DERMAL EXPOSURE

In case of skin contact, immediately wash skin with soap and copious amounts of water.

EYE EXPOSURE

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

5. Fire fighting measures

FLASH POINT

235 °F 115 °C Method: closed cup

AUTOIGNITION TEMP

N/A

FLAMMABILITY

N/A

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s): Emits toxic fumes under fire conditions.

6. Accidental release measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

7. Handling and storage

HANDLING

User Exposure: Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE

Suitable: Keep container tightly closed.

8. Exposure controls / PPE

ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN(EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

9. Physical and chemical properties

Appearance Physical State: Liquid

Property	Value	At Temperature or Pressure
Molecular Weight	184.28 AMU	
BP/BP Range	164.0 – 166.0 °C	13 mmHg
SG/Density	0.949 g/cm3	
Flash Point	235 °F 113 °C	Method: closed cup
Refractive Index	1.45	

10. Stability and reactivity

STABILITY: Stable

MATERIALS TO AVOID: Strong oxidizing agents. Strong bases.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, Carbon dioxide.

HAZARDOUS POLYMERIZATION: Will not occur

11. Toxicological information

ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.

Skin Absorption: May be harmful if absorbed through skin.

Eye Contact: Causes eye irritation.

Inhalation: May be harmful if inhaled.

Material is irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

TOXICITY DATA

Oral: Rat 18,500 mg/kg LD50

Remarks: Behavioral: Somnolence (general depressed activity).

IRRITATION DATA

Skin: Rabbit 100 mg 24H

Remarks: Severe irritation effect

Guinea pig 100 mg 24H

Remarks: Moderate irritation effect

12. Ecological information

No data available.

13. Disposal considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14. Transport information:

DOT - Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA - Non-Hazardous for Air Transport: Non-hazardous for air transport.

15. Regulatory information

EU DIRECTIVES CLASSIFICATION

Symbol of Danger: Xi

Indication of Danger: Irritant

R: 36/37/38

Risk Statements: Irritating to eyes, respiratory system and skin.

S: 26-36/37

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves.

US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Irritant.

Risk Statements: Irritating to eyes, respiratory system and skin.

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

TSCA INVENTORY ITEM: Yes

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes NDSL: No

16. Other information:

This information is being supplied under OSHA "Right to know" Regulation 29 CFR 1910.1200 and is offered in good faith as typical values and not as a product specification. The information contained here is based on the present state of our knowledge and does not therefore guarantee certain properties.

Recipients of our product must take responsibility for observing existing laws and regulations and understanding the hazards connected with the use of the material and its compounding or mixing with other materials. Qualchem assumes no responsibility for damage or injury from the use of the product described herein.

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