

MATERIAL SAFETY DATA SHEET

GAMMA DECALACTONE NATURAL, OPTICAL ACTIVE

1. Identification

- Chemical name 4-Hydroxydecanoic Acid Lactone
γ-Decalactone; 5-Hexyldihydro-2(3H)-furanone;
- Synonyms 5-Hexyloxolan-2-one
- Molecular Formula C₁₀H₁₈O₂
- Molecular Weight 170.25
- CAS No. 706-14-9
- FEMA No. 2360
- EINECS No. 211-892-8
- FDA 172.510
- CoE 2230

2. Hazards identification

- **Classification of the substance or mixture**
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
- **Label elements**
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
- **Other hazards**
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. Composition/information on ingredients

- γ-Decalactone, optical active ≥98%

4. First aid measures

- **Eye contact:**
Rinse immediately with tap water for 10 minutes open eyelids forcibly;
consult a physician if irritation persists
- **Skin contact:**
Remove immediately contaminated clothes, wash affected skin with water and soap - do not use any solvents;
consult a physician if skin irritation persists
- **Inhalation:**
Remove from exposure and move to fresh air immediately.
Get medical aid.

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- **Ingestion:**
If conscious and alert, rinse mouth and drink 2-4 cups of milk or water.
Get medical aid. induce vomiting.
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5. **Fire-fighting measures**

- **General Information:**
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
 - **Extinguishing Media:**
Use water spray, dry chemical, carbon dioxide, or chemical foam.
 - **Special method of fire-fighting**
Cool endangered containers with water spray; Containers may explode when heated.
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6. **Accidental release measures**

- **General Information:**
Use proper personal protective equipment as indicated in Section 8.
 - **Spills/Leaks:**
Vacuum or sweep up material and place into a suitable disposal container.
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7. **Handling and storage**

- **Handling:**
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
 - **Storage:**
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
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8. **Exposure controls and personal protection**

- **Technical measures** local exhaust ventilation necessary
take precautionary measures against electrostatic charging
processing in closed systems, if possible superposed by inert gas (e.g. nitrogen).
- **Engineering Controls** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower..
- **Respiratory protection** In case of olfactory nuisance: respirator with independent air supply or mask with activated charcoal filter

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- Eyes Safety glasses
 - Hand Protective gloves
 - Skin Wear appropriate protective clothing to prevent skin exposure
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9. Physical and chemical properties:

- Form Liquid
 - Color Colorless to pale yellow liquid
 - Odor Fruity, peach
 - PH value at 10g/l H₂O N/A
 - Boiling point 201°C
 - Flash point 113 °C - closed cup
 - Melting point Melting point/range: < -20 °C - OECD Test Guideline 102
 - Explosive properties N/A
 - Lower explosion limit N/A
 - Upper explosion limit N/A
 - Ignition temperature N/A
 - Oxidizing properties N/A
 - Vapor pressure N/A
 - Specific gravity @25°C 0.949~0.954
 - Solubility in water Insoluble
 - Organic solvents Soluble
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10. Stability and reactivity

- Chemical Stability Stable under recommended storage conditions.
 - Conditions to Avoid no data available
 - Substances to be avoided Strong oxidizing agents, Bases
 - Hazardous decomposition Carbon monoxide, carbon dioxide,
 - Hazardous Will not occur.
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11. Toxicological information

- Acute toxicity No information available.
 - Sensitization No information available.
 - Mutagenicity No information available.
 - Other Studies See actual entry in RTECS for complete information.
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12. Ecological information

- Biodegradability aerobic - Exposure time 28 d Result: 82 % - Readily biodegradable
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13. Disposal considerations

- Waste from residues Observe local/national regulations regarding waste disposal
Incinerate in qualified installation with flue gas scrubbing
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14. Transport information

- UN number**
ADR/RID:- IMDG:- IATA:-
 - Shipping Name**
ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods
 - Hazard Class**
ADR/RID:- IMDG:- IATA:-
 - Packing Group**
ADR/RID:- IMDG:- IATA:-
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15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

- Safety, health and environmental regulations/legislation specific for the substance or mixture**
no data available
 - Chemical Safety Assessment**
no data available
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16. Other information

- Document Number B-N23601-09
- Creation Date Feb. 11, 20
- Revision 9.0
- Disclaimer The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product

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