

MATERIAL SAFETY DATA SHEET

GAMMA DODECALACTONE NATURAL, OPTICAL ACTIVE

1. Identification

- Chemical name 5-Octyldihydro-2(3H)-furanone; 4-Dodecanolide
- Synonyms Dodeca-1,4-lactone
- Molecular Formula C₁₂H₂₂O₂
- Molecular Weight 198.31
- CAS No. 2305-05-7
- FEMA No. 2400
- EINECS No. 218-971-6
- FDA 172.510
- CoE 2240

2. Hazards identification

- **Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Skin irritation (Category 2)	H315
Eye irritation (Category 2)	H319
Specific target organ toxicity - single exposure (Category 3)	H335

- **Label elements**

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram



Signal word	Warning
Hazard statement(s)	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
Precautionary statement(s)	
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplemental Hazard Statements	none
• Other hazards	none

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3. *Composition/information on ingredients*

- γ -Dodecalactone $\geq 98\%$
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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.
 - **Ingestion:**
If conscious and alert, rinse mouth and-drink 2-4 cupfuls 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.
Normal measures for preventive fire protection.

- **Storage:**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

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
 - 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 Clear, liquid
 - Color Colorless to pale yellow
 - Odor Fruity, peach, pear
 - PH value at 10g/l H₂O N/A
 - Boiling point 130 - 132 °C at 2,0 hPa
 - Flash point 109 °C - closed cup
 - Melting point 17 - 18 °C
 - 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 0.933-0.938
 - Solubility in water N/A
 - Organic solvents 1 ml in 1 ml 95% alcohol
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10. Stability and reactivity

- Chemical Stability Stable Stable under recommended storage conditions.
- Conditions to Avoid Avoid moisture. Heat. Heat, flames and sparks.
- Substances to be avoided Oxidizing agents

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- Hazardous decomposition Carbon monoxide, irritating and toxic fumes and gases, 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 No information available
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12. Ecological information

- No information available
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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

Full text of R-phrases referred to under sections 2

R36/37/38

Irritating to eyes, respiratory system and skin.

16. Other information

- Document Number B-N24001-08
- Creation Date Mar. 27, 19
- Revision 8.0
- 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.