

## MATERIAL SAFETY DATA SHEET

### $\gamma$ - OCTALACTONE NATUARL, OPTICAL ACTIVE

#### 1. Identification

- Chemical name 5-Butyldihydro-2(3H)-furanone; 4-Octanolide
- Synonyms Octa-1,4-lactone
- Molecular Formula  $C_8H_{14}O_2$
- Molecular Weight 142.20
- CAS No. 104-50-7
- FEMA No. 2796
- EINECS No. 203-208-1
- FDA 172.510
- CoE 2274

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#### 2. Hazards identification

- **Classification of the substance or mixture**  
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.  
This substance is not classified as dangerous according to Directive 67/548/EEC.
- **Label elements**  
The product does not need to be labelled in accordance with EC directives or respective national laws.
- **Other hazards** none

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#### 3. Composition/information on ingredients

- Gamma Octalactone  $\geq 99\%$

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#### 4. First aid measures

- **Eye contact:**  
Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
- **Skin contact:**  
Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- **Inhalation:**  
Remove from exposure and move to fresh air immediately. Get medical aid.

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- **After ingestion:**  
Get medical aid. Wash mouth out with water.
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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:**  
Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.
  - **Storage:**  
Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.
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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 slightly yellow
  - Odor Sweet, coconut, fruity
  - pH value at 10g/l H<sub>2</sub>O N/A
  - Boiling point (°C) 234 °C - lit.
  - Flash point (°C) 113 °C - closed cup
  - Melting point (°C) N/A
  - 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 0.970-0.980
  - Solubility Insoluble in water; Soluble in alcohol
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## 10. *Stability and reactivity*

- Chemical Stability Stable at room temperature in closed containers under normal storage and handling conditions.
  - Conditions to Avoid Ignition sources, excess heat, freezing temperatures, confined spaces.
  - Substances to be avoided Metals, strong oxidizing agents, strong bases.
  - Hazardous decomposition Carbon dioxide, carbon monoxide.
  - Hazardous Polymerization: Will not occur.
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## 11. *Toxicological information*

- Acute toxicity LD50 Oral - rat - 4,400 mg/kg
- 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

- 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: -
- UN proper shipping name**  
ADR/RID:              Not dangerous goods  
IMDG:                      Not dangerous goods  
IATA:                      Not dangerous goods
- Transport hazard class(es)**  
ADR/RID: -    IMDG: -    IATA: -
- Packaging 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**  
For this product a chemical safety assessment was not carried out

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## 16. Other information

- Document Number                      B-N27961-08
- Creation Date                              Jun. 28, 19
- Revision                                      8.0

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- 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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