

# MATERIAL SAFETY DATA SHEET

# UNDECALACTONE GAMMA NATURAL, OPTICAL ACTIVE

### 1. Identification

Chemical name
 5-Heptyldihydro-2(3H)-Furanone; 4-Undecanolide

Synonyms
 Peach Aldehyde; Undeca-1,4-Lactone

Molecular Formula C<sub>11</sub>H<sub>20</sub>O<sub>2</sub>
 Molecular Weight 184.28
 CAS No. 104-67-6
 FEMA No. 3091
 Einecs No. 203-225-4
 FDA 172.510
 CoE 179

### 2. Hazards identification

Classification of the substance or mixture

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

Skin irritation (Category 2) H316
Chronic aquatic toxicity (Category 3) H412

Label elements

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

Pictogram

Signal word Warning

Hazard statement(s)

H316 Causes mild skin irritation H402 Harmful to aquatic life

H412 Harmful to aquatic life with long-lasting effects

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P273 Avoid release to the environment.

P501 Dispose of contents/container to an approved waste disposal plant

Supplemental Hazard none

Statements

Other hazards none

# 3. Composition/information on ingredients

• Gamma Undecalactone ≥ 98%

### 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.

#### After ingestion:

Get medical aid. Wash mouth out with water.

## 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.

### 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.

## 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.

## 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 glassesHand Protective gloves

Skin: Wear appropriate protective clothing to prevent skin exposure

# 9. Physical and chemical properties:

• Form Liquid

Color
 Colorless to slight yellow

Odor Fruity, peach

pH value at 10g/I H<sub>2</sub>O
 N/A

Boiling point
 164 - 166 °C at 17 hPa - lit.

Flash point

112 °C alasad aun

Melting point 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

0.942 – 0.945

Solubility in water Insoluble

• Organic solvents 1 ml soluble in 5 ml 60% alcohol

# 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

Substances to be avoided Metals, strong oxidizing agents, strong bases.

Hazardous decomposition Carbon dioxide, carbon monoxide.

Hazardous Will not occur.

## 11. Toxicological information



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Acute toxicity
 LD50 - Oral - rat- 18500 mg/kg

LD50 Dermal - Rat - male and female - > 2,000 mg/kg

Sensitization No information available.Mutagenicity No information available.

• Other Studies See actual entry in RTECS for complete information.

## 12. Ecological information

No information available

## 13. Disposal considerations

Waste from residues
 Observe local/national regulations regarding waste disposal

Incinerate in qualified installation with flue gas scrubbing

# 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:-

## 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

### 16. Other information

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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.