



Essential oils, Aroma chemicals, Flavor & Fragrance

MATERIAL SAFETY DATA SHEET

FURANEOL NATURAL

1. Identification

- Product name: Furaneol natural
- Synonyms: 4-Hydroxy-2,5-Dimethyl-3(2H)-furanone;
Pineapple ketone, Furanone; Strawberry furanone
- Molecular Formula: $C_6H_8O_3$
- Molecular Weight: 128.13
- CAS No.: 3658-77-3
- FEMA No.: 3174
- EINECS No.: 222-908-8
- FDA: -
- CoE: 536

2. Composition/information on ingredients

- Furaneol natural $\geq 99.5\%$

3. Hazards identification

- The toxicological properties of this material have not been fully investigated.
- Potential Health Effects
 - Eye: May cause eye irritation.
 - Skin: May cause skin irritation.
 - Ingestion: The toxicological properties of this substance have not fully been investigated. May be harmful if swallowed.
 - Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated
 - Chronic: Not available

4. First aid measures

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

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:**

Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

- **Storage:**

Store in a cool, dry place. Store in a tightly closed container.

8. Exposure controls and personal protection

- **Exposure limits**

Use adequate ventilation to keep airborne concentrations low..

- **Personal protective equipment:**

- **Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
 - **Skin:** Wear appropriate protective gloves to prevent skin exposure.
 - **Clothing:** Wear appropriate protective clothing to minimize contact with skin.
 - **Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.
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9. Physical and chemical properties:

- **Form:** Solid crystals
- **Color:** White
- **Odor** Caramel, burnt sugar.

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• PH value at 10g/l H ₂ O	N/A
• Boiling point:	N/A
• Flash point:	>90 °C
• Melting point:	79 - 81 °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
• Density/specific gravity @25 °C:	N/A
• Solubility in water:	Insoluble
• Organic solvents:	1 g sample soluble in 2 ml 95% ethanol

10. Stability and reactivity

• Stability:	Stable under normal temperatures and pressures.
• Conditions to be avoided:	Incompatible materials, excess heat.
• Substances to be avoided:	Strong oxidizing agents.
• Hazardous decomposition:	Carbon dioxide, carbon monoxide.
• Further information:	No information available

11. Toxicological information

• LD50 oral, rat:	No information available
• LD50 dermal, rabbit:	No information available
• LD50 inhalation, rat:	No information available
• Further toxicological information:	May be harmful by inhalation, ingestion or skin absorption. Vapor or mist is irritating to eyes, mucous membranes and other upper respiratory tract

12. Ecological information

• Biologic degradation	
Biodegradation:	No information available
• Ecotoxic effects	
Biological effects:	No information available
Fish toxicity:	No information available
Bacterial toxicity:	No information available
Daphnia toxicity:	No information available
Algal toxicity:	No information available
• Behavior in environmental compartments	
Distribution: log P(oct):	No information available

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- **Further ecological data**

Do not allow to discharge water, drain or soil. Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

13. Disposal considerations

Dispose of in a manner consistent with federal, state, and local regulations.

14. Transport information

- UN-no.: Not listed
 - Shipping Name: Not listed
 - Hazard Class: None
 - Packing Group: Not listed
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15. Regulatory information

- **Labeling according to EC Directives:**

Symbol: Xn Harmful

R-phrases: R22 Harmful if swallowed.

S-phrases: S36/37 Wear suitable protective clothing and gloves.

EC-no.: 222-908-8

- **U.S. NPCA/HMIS Hazardous Materials Information System**

Health	Flammability	Reactivity	Personal Protection*
1	1	0	-

0 - Minimal Hazard: No significant risk to health.

1 - Slight Hazard: Irritation or minor reversible injury possible.

2 - Moderate Hazard: Temporary or minor injury may occur.

3 - Serious Hazard: Major injury likely unless prompt action is taken and medical treatment is given.

4 - Severe Hazard: Life-threatening, major or permanent damage may result from single or repeated exposures.

16. Other information

- 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.