


## MATERIAL SAFETY DATA SHEET

### STRAWBERRY FURANONE NATURAL

#### 1. Identification

- Chemical name 4-Hydroxy-2,5-Dimethyl-3(2H)-Furanone
- Synonyms Furaneol; Furanone
- Molecular Formula C<sub>6</sub>H<sub>8</sub>O<sub>3</sub>
- Molecular Weight 128.13
- CAS No. 3658-77-3
- FEMA No. 3174
- EINECS No. 222-908-8
- FDA -
- CoE 536
- REACH Registration number 01-2120754473-52-0001
- Registered use Formulation/Uses at industrial sites/Uses by professional workers
- Only representative Chemical Inspection & Regulation service Limited
- Address Room 002, Regus Harcourt Centre D02 HW77, Dublin, Ireland
- Contact Person(E-mail) info@cirs-reach.com
- Telephone +00 353 1 477 3708
- Contact Person Cyndy

#### 2. Hazards identification

- **Classification of the substance or mixture**  
**Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**  
Acute toxicity, Oral (Category 4) H302
- **Label elements**  
**Labelling according Regulation (EC) No 1272/2008 [CLP]**  
Pictogram   
Signal word Warning  
Hazard statement(s)  
H302 Harmful if swallowed.  
Precautionary statement(s)  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth  
Supplemental Hazard statements none
- **Other hazards** none

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### 3. **Composition/information on ingredients**

- 4-Hydroxy-2,5-Dimethyl-3(2H)Furanone                      ≥ 99.5%
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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.
  - **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:**  
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.  
Provide appropriate exhaust ventilation at places where dust is formed.
- **Storage:**  
Keep in tightly closed container in a cool and dry place, protected from light and under Nitrogen

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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
- 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                              Solid
- Color                              White to pale yellow
- Odor                                Fruity, Strawberry, Caramel
- pH value at 10g/l H<sub>2</sub>O        N/A
- Boiling point                    215.5 °C
- Flash point                      94 °C
- Melting point                    75 – 80°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
- Solubility in water             N/A
- Organic solvents                1 g in 1 ml 95% ethanol

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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
- Substances to be avoided    Metals, strong oxidizing agents, strong bases.
- Hazardous decomposition    Carbon dioxide, carbon monoxide.
- Hazardous                        Will not occur.

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### 11. Toxicological information

- Acute toxicity LD50 Oral - mouse - 1,608 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:-
- **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-N31740-09
- Creation Date Jan. 13, 20
- Revision 9.0

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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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