


MATERIAL SAFETY DATA SHEET

MALTOL NATURAL

1. Identification

- Chemical name 3-Hydroxy-2-methyl-4-pyrone
- Synonyms Maltol
- Molecular Formula $C_6H_6O_3$
- Molecular Weight 126.11
- CAS No. 118-71-8
- FEMA No. 2656
- EINECS No. 204-271-8
- FDA 172.510
- CoE 148
- REACH Registration number 01-2120766007-55-0001
- Only representative Chemical Inspection & Regulation service Limited
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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**

- Maltol ≥99.5%
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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**

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- **Handling:**
Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fireprotection.
- **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

9. Physical and chemical properties:

- Form Powder
- Color White
- Odor Caramel-like odor
- PH value at 10g/l H₂O N/A
- Boiling point 284.7 °C at 1,013 hPa
- Flash point 110°C
- Melting point 160 - 164 °C - lit.
- 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 N/A
- Solubility in water Insoluble
- Organic solvents Soluble

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10. Stability and reactivity

- Chemical Stability Stable under recommended storage conditions.
- Conditions to Avoid Incompatible materials
- Substances to be avoided Strong oxidizing agents
- Hazardous decomposition Carbon monoxide, carbon dioxide
- Hazardous Will not occur.

11. Toxicological information

- Acute toxicity LD50 Oral - rat - 1.410 mg/kg
LD50 Oral - mouse - 550 mg/kg
LD50 Oral - rabbit - 1.620 mg/kg
LD50 Subcutaneous - mouse - 820 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:-

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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-N26560-09
- Creation Date Jan. 21, 20
- Revision 9.0
- 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.

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