
MATERIAL SAFETY DATA SHEET**ETHYL MALTOL****1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY**

Product name : Ethyl Maltol
Supplier Name : Chemtex USA, Inc.
Address : 150 River Road, Suite G3B, Montville, NJ 07045-9441 USA
Telephone Number : (973) 335-2501
Fax Number : (973) 335-2552
Emergency Number : North America (Canada & US)
1-800-255-3924 (CHEMTEL INC.). (24 HOURS)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical identity : 3-Hydroxy-2-ethyl-4-pyrone
Molecular formula : C₇H₈O₃
CAS No. : 4940-11-8
EC No. : 225-582-5

3. HAZARDS IDENTIFICATION

Harmful by inhalation and if swallowed.

4. FIRST AID MEASURES

After Inhalation : Provide with fresh air
After Skin Contact : Take off all contaminated clothing, wash with plenty of water
After Eye Contact : Rinse thoroughly with plenty of water and seek medical advice
After Swallowing : Immediately drink plenty of water; Seek medical advice and show this container or label

5. FIRE-FIGHTING MEASURES**Suitable extinguishing media:**

Carbon Dioxide (CO₂), foam, powder

Special protective equipment for fire fighting:

Do not stay in danger zone without self-contained breathing apparatus.

Other information:

Cool container with water spray from a safe distance. Contain escaping vapors with water. Prevent fire-fighting water from entering surface water or groundwater. Keep away from sources of ignition.

Special risks:

Combustible. Vapors heavier than air. Forms explosive mixtures with air at ambient temperatures. Development of hazardous combustion gases or vapors possible in the event of fire.

6. ACCIDENTAL RELEASE MEASURES**Person-related precautionary measures:**

Do not inhale vapors/aerosols. Ensure supply of fresh air in enclosed rooms.

Environmental-protection measures:

Do not allow to enter sewage system.

Procedures for cleaning / absorption:

Take up with liquid-absorbent material. Forward for disposal. Clean affected area.

7. HANDLING AND STORAGE

Handling:

Take precautionary measures against static discharges. Keep away from source of ignition. When using do not eat or drink.

Storage:

Tightly closed, in a well-ventilated place. Keep away from source of ignition – no smoking.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**Exposure limits**

Avoid contact with eyes, skin, clothing, and breathing vapor.

Personal protective equipment:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

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| Respiratory protection | : Required when vapors/aerosols are generated. |
| Eye protection | : Wear eye/ face protection |
| Hand protection | : Wear suitable gloves. Wash hands after working with substance. |
| Industrial Hygiene | : Change contaminated clothing. Application of skin-protective barrier cream recommended. |

9. PHYSICAL AND CHEMICAL PROPERTIES:

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| Form | : Crystalline powder |
| Color | : White to pale yellow |
| Odor | : Caramel |
| pH value at 10 g/l H ₂ O | : No information available |
| Boiling point | : N/a |
| Flash point | : >110°C |
| Melting point | : 89.0 – 92.0°C |
| Explosive Properties | : No information available |
| Lower explosion limit | : No information available |
| Upper explosion limit | : No information available |
| Ignition temperature | : No information available |
| Oxidizing properties | : Not oxidizing; not flammable |
| Vapor pressure | : N/a |
| Density/specific gravity@20°C | : N/a |
| Solubility in Water: | |
| Organic solvents: | |
| Insoluble | |
| Soluble | |

10. STABILITY AND REACTIVITY

Conditions to be avoided : Heating
Substances to be avoided : Strong oxidizing agents
Hazardous decomposition
Products : Carbon monoxide, carbon dioxide
Further information : No information available

11. TOXICOLOGICAL INFORMATION

LD50 oral, rat : 1150 mg/kg
LD50 dermal, rabbit : >5000 mg/kg
LD50 inhalation, rat : No information available
Further toxicological information: May be harmful if inhaled, swallowed, or if absorbed through the skin.

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

Further ecological data

Do not allow to enter water, drain or soil.

13. DISPOSAL CONSIDERATIONS

Product:

according to official local regulations.

Packing:

according to official local regulations.

14. TRANSPORT INFORMATION

Not subject to transport regulations.

15. REGULATORY INFORMATION

Labeling according to EC Directives:

Symbol : Xn Harmful.

R-phrases : 22 Harmful if swallowed
S-phrases : 36 Wear suitable protective clothing
EC-no. : 225-582-5

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.