

Material Safety Data Sheet (MSDS)

Ethyl Maltol

Prepared by Tuoda Industry Limited

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Section 1: Identification

Product Name: Ethyl Maltol

CAS Number: 4940-11-8

EC Number: 225-582-5

Molecular Formula: C₇H₈O₃

Recommended Use: Flavoring agent and food additive

Manufacturer: Tuoda Industry Limited

Section 2: Hazard Identification

Classification (GHS): Not classified as hazardous under normal use

Signal Word: None

Hazard Statements: Not applicable

Precautionary Statements:

- P264: Wash hands thoroughly after handling
- P280: Wear protective gloves/eye protection

Section 3: Composition/Information on Ingredients

Substance Name: Ethyl Maltol

CAS No.: 4940-11-8

EC No.: 225-582-5

Content (%): $\geq 99.0\%$

Section 4: First Aid Measures

Inhalation: Move person to fresh air. Seek medical attention if symptoms persist.

Skin Contact: Wash with soap and water. Remove contaminated clothing.

Eye Contact: Flush eyes with water for at least 15 minutes.

Ingestion: Rinse mouth. Do not induce vomiting. Seek medical advice.

Section 5: Firefighting Measures

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or foam

Hazards: Thermal decomposition may produce CO, CO₂

Protective Equipment: Use self-contained breathing apparatus

Section 6: Accidental Release Measures

Personal Precautions: Use personal protective equipment. Ensure ventilation.

Environmental Precautions: Avoid discharge to drains or environment.

Cleanup: Sweep up, collect in suitable container for disposal. Avoid dust generation.

Section 7: Handling and Storage

Handling: Avoid contact with skin and eyes. Avoid inhaling dust.

Storage: Store in a cool, dry, well-ventilated place. Keep container tightly closed.

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Local exhaust ventilation recommended

Personal Protective Equipment:

- Eyes: Safety goggles
- Hands: Protective gloves
- Respiratory: Dust mask if necessary

Section 9: Physical and Chemical Properties

Appearance: White crystalline powder

Odor: Sweet, caramel-like

Melting Point: 89-93 °C

Boiling Point: Not applicable (decomposes)

Solubility: Slightly soluble in water; soluble in ethanol and propylene glycol

Flash Point: >150 °C

Bulk Density: approx. 0.6 g/cm³

Section 10: Stability and Reactivity

Stability: Stable under normal conditions

Conditions to Avoid: Heat, moisture

Incompatible Materials: Strong oxidizers

Decomposition Products: Carbon oxides

Section 11: Toxicological Information

Acute Toxicity: Not classified

Skin/Eye Contact: May cause mild irritation

Sensitization: No known sensitizing effects

Carcinogenicity: Not listed by IARC, NTP, or OSHA

Section 12: Ecological Information

Ecotoxicity: Low environmental hazard

Persistence: Biodegradable

Bioaccumulation: Low potential

Section 13: Disposal Considerations

Dispose of in accordance with local, regional, national regulations. Do not discharge into drains or water bodies.

Section 14: Transport Information

UN Number: Not regulated

Transport Hazard Class: Not applicable

Packing Group: Not applicable

Environmental Hazards: None

Section 15: Regulatory Information

Compliant with TSCA, REACH, EINECS, and relevant food additive approvals

Section 16: Other Information

The data provided is accurate to the best of our knowledge. It is intended to describe safety requirements and not to guarantee specific properties. Final responsibility rests with the user to ensure safety and regulatory compliance.