

Material Safety Data Sheet (MSDS)

Fruity Ketal

Revision Date: 24-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Fruity Ketal
- **Chemical Identity:** Ethyl acetoacetate propylene glycol ketal (Ethyl dimethyl dioxolane acetate)
- **Chemical Formula:** C₉H₁₆O₄
- **CAS No:** 6290-17-1
- **Synonyms:** Ethyl 2,4-dimethyl-1,3-dioxolane-2-acetate; Ethyl dimethyl dioxolane acetate; Fraistone; Fructose B
- **Recommended Use:** Flavor & fragrance ingredient; chemical intermediate.

Section 2: Hazards Identification

- **Classification (GHS):** Flammable liquid (Category 4)
- **Signal Word:** Warning
- **Hazard Statements:**
 - H227: Combustible liquid
- **Precautionary Statements:**
 - Keep away from heat/sparks/open flames and hot surfaces. No smoking
 - Wear protective gloves/protective clothing/eye protection/face protection

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- Store in a well-ventilated place. Keep cool
- Dispose of contents/container in accordance with local regulations

Section 3: Composition / Information on Ingredients

- **Substance:** Ethyl acetoacetate propylene glycol ketal
- **Concentration:** 95–100%

Section 4: First Aid Measures

- **Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. Seek medical attention if symptoms occur.
- **Skin Contact:** Remove contaminated clothing. Wash skin with plenty of soap and water. Seek medical advice if irritation persists.
- **Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Obtain medical advice.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, carbon dioxide, dry chemical powder, alcohol-resistant foam.
- **Specific Hazards:** Combustible liquid; vapors may form explosive mixtures with air when heated. Emits carbon oxides under fire conditions.
- **Protective Equipment:** Wear self-contained breathing apparatus and full protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Evacuate area. Eliminate ignition sources. Provide adequate ventilation. Wear appropriate PPE.
- **Environmental Precautions:** Prevent entry into drains, surface waters, and soil.
- **Cleanup Methods:** Cover with inert, non-combustible absorbent (sand, dry lime, soda ash). Collect with non-sparking tools into labeled containers for disposal. Wash spill area.

Section 7: Handling and Storage

- **Handling:** Avoid inhalation of vapors and contact with skin/eyes. Use with adequate ventilation. Keep away from ignition sources.
- **Storage:** Store in tightly sealed containers in a cool, dry, well-ventilated place away from heat/light. Keep in glass/suitable plastic/aluminum or lacquer-lined containers.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not established (OSHA/ACGIH/NIOSH).
- **Engineering Controls:** Provide local exhaust ventilation to control vapors.
- **Personal Protective Equipment:** Chemical-resistant gloves, safety goggles, protective clothing; respirator if ventilation is inadequate.

Section 9: Physical and Chemical Properties

- **Appearance:** Colorless clear liquid
- **Odor:** Fresh, fruity (apple/strawberry/licorice)
- **Melting Point:** -68 °C (760 mmHg)
- **Boiling Point:** 110 °C at 27 mmHg
- **Flash Point:** 90.6 °C (TCC)

- **Solubility:** Insoluble in water

Section 10: Stability and Reactivity

- **Stability:** Stable under recommended conditions.
- **Conditions to Avoid:** Heat, open flames, ignition sources.
- **Incompatible Materials:** Strong oxidizing and strong reducing agents.
- **Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, skin and eye contact, ingestion.
- **Acute Effects:** Combustible liquid; may cause irritation to eyes/skin/respiratory tract.
- **Carcinogenicity:** Not listed by OSHA, IARC, NTP, ACGIH, Prop 65.
- **Sensitization/Mutagenicity/Reproductive:** Data not determined.

Section 12: Ecological Information

- **Ecotoxicity:** Avoid uncontrolled release to the environment.
- **Persistence and Degradability:** Not determined.
- **Bioaccumulative Potential:** Low (estimated).

Section 13: Disposal Considerations

- Dispose of contents/container in accordance with local/regional/national regulations. Do not discharge to drains.

Section 14: Transport Information

- **UN Number:** NA
- **Proper Shipping Name:** Fruity Ketal
- **Hazard Class:** NA
- **Packing Group:** Na

Section 15: Regulatory Information

- Listed on major chemical inventories (e.g., TSCA). GHS classification as noted above. Ensure compliance with local regulations applicable in India.

Section 16: Other Information

Disclaimer: The above information is believed to be correct but does not claim to be exhaustive. Users are responsible for verifying suitability under actual conditions of use. Triveni Chemicals disclaims liability for damage resulting from handling or contact.

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