

Material Safety Data Sheet (MSDS)

Benzaldehyde Propylene Glycol Acetal

Revision Date: 24-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Benzaldehyde Propylene Glycol Acetal
- **Chemical Formula:** C₁₀H₁₂O₂
- **CAS No:** 2568-25-4
- **Synonyms:** Benzaldehyde PG Acetal; 1,3-Dioxolane, 2-(phenylmethyl)-4-methyl-
- **Recommended Use:** Fragrance ingredient, solvent, intermediate in chemical synthesis.

Section 2: Hazards Identification

- **Classification (GHS):** Skin Irritant (Category 2); Eye Irritant (Category 2A)
- **Signal Word:** Warning
- **Hazard Statements:**
 - Causes skin irritation.
 - Causes serious eye irritation.
- **Precautionary Statements:**
 - Avoid contact with skin and eyes.
 - Wear protective gloves and eye protection.
 - Wash thoroughly after handling.
 - In case of eye contact: Rinse cautiously with water for several minutes.

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Section 3: Composition / Information on Ingredients

- **Concentration:** $\geq 95\%$

Section 4: First Aid Measures

- **Inhalation:** Move to fresh air. If symptoms occur, seek medical attention.
- **Skin Contact:** Wash with soap and water. Remove contaminated clothing. Seek medical attention if irritation persists.
- **Eye Contact:** Rinse thoroughly with water for several minutes. Remove contact lenses if present. Seek medical advice if irritation continues.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical attention immediately.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, carbon dioxide (CO₂).
- **Specific Hazards:** May emit carbon oxides under fire conditions.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Use protective equipment. Avoid skin/eye contact and inhalation. Ensure good ventilation.
- **Environmental Precautions:** Prevent release into drains and waterways.
- **Cleanup Methods:** Absorb with inert material (sand, earth). Collect in container for disposal.

Section 7: Handling and Storage

- **Handling:** Avoid breathing vapors and contact with skin/eyes. Use in well-ventilated areas.
- **Storage:** Keep container tightly closed. Store in a cool, dry, well-ventilated place away from heat and incompatible materials.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not specifically established.
- **Engineering Controls:** Provide adequate ventilation and local exhaust.
- **Personal Protective Equipment:** Safety goggles, gloves, protective clothing, respirator if ventilation is inadequate.

Section 9: Physical and Chemical Properties

- **Appearance:** Colorless to pale yellow liquid
- **Odor:** Pleasant, benzaldehyde-like odor

- **Boiling Point:** 83 - 85 °C (approx.)
- **Flash Point:** 100 °C
- **Solubility:** Slightly soluble in water; miscible with organic solvents
- **Molecular Weight:** 164.20 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under recommended conditions.
- **Incompatible Materials:** Strong oxidizing agents, strong acids.
- **Hazardous Decomposition Products:** Carbon oxides under fire conditions.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Causes irritation to skin, eyes, and respiratory tract.
- **Chronic Effects:** Prolonged or repeated exposure may cause dermatitis or sensitization.

Section 12: Ecological Information

- **Ecotoxicity:** May be harmful to aquatic life.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Low potential.

Section 13: Disposal Considerations

- Dispose of contents/container in accordance with local/regional/national regulations. Do not release to the environment.

Section 14: Transport Information

- **UN Number:** Not regulated
- **Proper Shipping Name:** Benzaldehyde Propylene Glycol Acetal
- **Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not applicable

Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and listed under international chemical inventories.
- Classified as hazardous substance as per GHS.

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.