

Material Safety Data Sheet (MSDS)

Potassium Bifluoride

Revision Date: 09-12-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Potassium Bifluoride
- **CAS No:** 7789-29-9
- **Synonyms:** Potassium acid fluoride ,Potassium hydrogen fluoride
- **Recommended Use:** Glass etching, metal cleaning, catalyst, intermediate in fluoride chemistry

Section 2: Hazards Identification

- **Classification (GHS):** Flammable liquids; Acute toxicity, Oral; Skin irritation; Eye irritation.
- **Signal Word:** Warning
- **Hazard Statements:**
 - Harmful if swallowed
 - Causes skin irritation and serious eye irritation
 - Combustible liquid
 - Keep away from heat/sparks/open flames. No smoking
 - Wear protective gloves/eye protection
- **IF ON SKIN or IN EYES:** Rinse cautiously with water; seek medical advice if irritation persists

Section 3: Composition / Information on Ingredients

- **Concentration:** 0.98
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Section 4: First Aid Measures

- **Inhalation:** Remove to fresh air. If symptoms develop, seek medical attention.
 - **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. Seek medical advice if irritation persists.
 - **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing. Seek medical attention if irritation persists.
 - **Ingestion:** Rinse mouth. Do NOT induce vomiting. Seek medical advice if feeling unwell.
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Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Dry chemical, foam, carbon dioxide water spray.
 - **Specific Hazards:** Combustible liquid; emits toxic fumes of carbon oxides under fire conditions.
 - **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.
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Section 6: Accidental Release Measures

- **Personal Precautions:** Use personal protective equipment. Avoid breathing vapors. Ensure adequate ventilation. Eliminate ignition sources.
 - **Environmental Precautions:** Prevent entry into drains and waterways.
 - **Cleanup Methods:** Absorb with inert material. Collect in suitable container for disposal.
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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:** Keep container tightly closed. Store in a cool, dry, well-ventilated place away from heat and oxidizing agents.
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Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** ACGIH TLV 50 ppm 205 mg/m³ TWA; OSHA PEL not established.
 - **Engineering Controls:** Provide adequate ventilation and local exhaust if needed.
 - **Personal Protective Equipment:** Chemical-resistant gloves, safety goggles, protective clothing. Respirator if ventilation is inadequate.
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Section 9: Physical and Chemical Properties

- **Appearance:** White crystalline solid
 - **Odor:** Odorless
 - **Molecular Weight:** 60.10 g/mol
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Section 10: Stability and Reactivity

- **Stability:** Stable under normal conditions.
 - **Incompatible Materials:** Strong oxidizing agents.
 - **Hazardous Decomposition Products:** Carbon oxides under fire conditions.
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Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.



- **Acute Effects:** Harmful if swallowed; causes skin and eye irritation; may cause respiratory irritation.

- **Chronic Effects:** Prolonged or repeated exposure may cause dermatitis and liver/kidney effects.

Section 12: Ecological Information

- **Ecotoxicity:** May be harmful to aquatic life in high concentrations.

- **Persistence and Degradability:** Expected to be biodegradable.

- **Bioaccumulative Potential:** Low to moderate potential.

Section 13: Disposal Considerations

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

Section 14: Transport Information

- **UN Number:** UN 1811

- **Hazard Class:** 8

- **Packing Group:** II

- **Proper Shipping Name:** Potassium Bifluoride

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** disclaim any liability for damage resulting from handling or contact.

