



POTASSIUM METABISULFITE

1. Product Identification

Synonyms: Potassium pyrosulfite; pyrosulfurous acid, dipotassium salt; disulfurous acid, dipotassium salt; potassium disulfite

CAS No.: 16731-55-8

Molecular Weight: 222.31

Chemical Formula: $K_2S_2O_5$

Product Codes: 39046 , 39047

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
Potassium Metabisulfite	16731-55-8	90 - 100%

3. Hazards Identification

Potential Health Effects

Inhalation: Use of bronchodilators preserved with sulfites can cause allergic reactions.

Ingestion: Not expected to be a health hazard but large amounts may cause gastrointestinal disturbances due to release of sulfur dioxide. Nausea, vomiting, diarrhea may result. Some sensitive individuals may experience allergic reactions from foods treated with sulfites.

Skin Contact: May cause irritation and possibly dermatitis.

Eye Contact: May cause irritation, redness and pain.

Chronic Exposure: No adverse health effects expected.

Aggravation of Pre-existing Conditions: Some asthmatics are said to be dangerously sensitive to minute amounts of sulfites in foods and some bronchodilator medications preserved with sulfites.

4. First Aid Measures

Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion: Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

Skin Contact: Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Contact: Wash thoroughly with running water. Get medical advice if irritation develops.

5. Fire Fighting Measures

Fire: Not considered to be a fire hazard, however, may ignite in milling, grinding, other conditions of high friction.

Explosion: Not considered to be an explosion hazard.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.



6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.

Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

7. Handling and Storage

Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product. Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits: None established.

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Respirators : For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn.

Skin Protection: Wear protective gloves and clean body-covering clothing.

Eye Protection: Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance: White or colorless crystals.

Odor: Sulfur dioxide.

Solubility: Soluble in water.

Density: 2.3

pH: No information found.

% Volatiles by volume @ 21C (70F): 0

Boiling Point: Not applicable.

Melting Point: 190C (374F)

Vapor Density (Air=1): No information found.

Vapor Pressure (mm Hg): No information found.

Evaporation Rate (BuAc=1): No information found.

10. Stability and Reactivity

Stability: Oxidizes in air to sulfate, more readily in the presence of moisture.

Hazardous Decomposition Products: Reaction with acids may release sulfur dioxide.

Hazardous Polymerization: Will not occur.

Incompatibilities: No incompatibility data found. Strong acids, water, most common metals, and nitrates.

Conditions to Avoid: Heat, moisture, air, incompatibles.

11. Toxicological Information

No LD50/LC50 information found relating to normal routes of occupational exposure. Investigated as a tumorigen, mutagen, reproductive effector.

12. Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: No information found.

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13. Disposal Considerations

Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No

Reactivity: No (Pure / Solid)

16. Other Information

Product Use:

Laboratory Reagent.