

Material Safety Data Sheet (MSDS)

Product Name: Potassium Sorbate Food Grade

MSDS Generate Date: 20-05-2017

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Supplier:

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1. Identification of the Substance and Company

Product Name: Potassium Sorbate Food Grade

Chemical Name: Potassium Sorbate

Synonyms: Potassium (2E,4E)-Hexa-2,4-dienoate, Sorbic Acid Potassium Salt

CAS Number: 24634-61-5

Molecular Formula: $C_6H_7KO_2$

Molecular Weight: 150.22 g/mol

Recommended Use:

Food preservative, beverage preservative, pharmaceutical preservative, cosmetic preservative, nutraceutical formulations, bakery products, dairy products, confectionery, sauces, fruit products, and other food processing applications.

2. Hazard Identification

GHS Classification: Potassium Sorbate Food Grade is not classified as hazardous under the Globally Harmonized System (GHS) under normal conditions of use.

Potential Health Effects

Inhalation: Dust may cause mild irritation of the nose, throat, and respiratory tract.

Skin Contact: Prolonged or repeated contact may cause mild skin irritation in sensitive individuals.

Eye Contact: Dust may cause temporary redness, watering, and irritation.

Ingestion: Low toxicity under normal conditions of use. Large quantities may cause mild gastrointestinal discomfort.

Environmental Hazards: No significant environmental hazards are expected under recommended conditions of use.

Precautionary Statements

- Avoid breathing dust.
- Avoid unnecessary dust formation.
- Avoid contact with eyes.
- Use good industrial hygiene practices.
- Wash hands thoroughly after handling.

3. Composition / Information on Ingredients

Chemical Name: Potassium Sorbate

CAS Number: 24634-61-5

Molecular Formula: $C_6H_7KO_2$

Chemical Family: Organic Potassium Salt

Purity: Typically 99.0% minimum (Food Grade)

The product consists primarily of high-purity potassium sorbate with trace levels of moisture and manufacturing impurities maintained within food-grade quality specifications.

4. First Aid Measures

Inhalation: Move the affected person to fresh air. Seek medical attention if respiratory irritation persists.

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

Eye Contact: Immediately flush eyes with plenty of clean water for at least 15 minutes. Remove contact lenses if present. Seek medical attention if irritation persists.

Ingestion: Rinse mouth with water. Drink plenty of water. Obtain medical advice if large quantities are swallowed or symptoms occur.

Most Important Symptoms

- Mild respiratory irritation
- Temporary eye irritation
- Mild skin irritation
- Gastrointestinal discomfort

5. Fire Fighting Measures

Suitable Extinguishing Media: Water spray, Dry chemical powder, Carbon dioxide (CO₂), Alcohol-resistant foam.

Fire Hazards: The product is combustible at high temperatures but does not readily ignite under normal conditions.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, potassium oxides, and irritating organic fumes.

Protective Equipment: Firefighters should wear self-contained breathing apparatus (SCBA) and full protective clothing.

6. Accidental Release Measures

Personal Precautions:

- Avoid generating dust.
- Ensure adequate ventilation.
- Wear suitable personal protective equipment.

Environmental Precautions: Prevent excessive quantities from entering drains, waterways, or soil.

Cleanup Methods: Sweep or vacuum carefully while minimizing dust generation. Collect into suitable containers for reuse or disposal.

7. Handling and Storage

Handling

- Avoid breathing dust.
- Prevent unnecessary dust formation.
- Avoid contact with eyes.
- Maintain good industrial hygiene practices.

Storage

Store in tightly sealed containers in a cool, dry, and well-ventilated place.

Protect from moisture, excessive humidity, direct sunlight, and incompatible oxidizing materials.

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Provide adequate ventilation where dust is generated.

Personal Protective Equipment

- **Respiratory Protection:** Approved dust respirator where excessive airborne dust exists.
- **Eye Protection:** Safety glasses or chemical safety goggles.
- **Hand Protection:** Protective gloves.
- **Skin Protection:** Suitable protective clothing where required.

9. Physical and Chemical Properties

Appearance: White crystalline granules or powder

Odor: Odorless or faint characteristic odor

Physical State: Solid

pH (1% Solution): Approximately 7.0–8.0

Melting Point: Decomposes above approximately 270°C

Boiling Point: Not applicable

Specific Gravity: Approximately 1.36

Bulk Density: Varies according to particle size

Solubility: Freely soluble in water; slightly soluble in ethanol

Flash Point: Not applicable

Auto-Ignition Temperature: Not determined

Explosive Properties: None under normal conditions

Oxidizing Properties: None

Vapor Pressure: Not applicable

Vapor Density: Not applicable

10. Stability and Reactivity

Reactivity: Stable under recommended storage conditions.

Chemical Stability: Stable during normal handling and storage.

Conditions to Avoid: Excessive heat, Moisture, Direct sunlight.

Incompatible Materials: Strong oxidizing agents, strong acids, and reducing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, potassium oxides, and irritating fumes.

11. Toxicological Information

Acute Toxicity: Low acute toxicity under normal conditions of use.

Skin Irritation: May cause slight irritation in sensitive individuals.

Eye Irritation: Dust may cause temporary mechanical irritation.

Respiratory Effects: Dust may irritate the upper respiratory tract.

Carcinogenicity: Not classified as carcinogenic.

Mutagenicity: No known mutagenic effects.

Reproductive Toxicity: No known reproductive hazards.

12. Ecological Information

Ecotoxicity: No significant environmental toxicity is expected when used appropriately.

Persistence and Degradability: Readily biodegradable under normal environmental conditions.

Bioaccumulative Potential: Not expected to bioaccumulate.

Mobility: Highly soluble in water.

13. Disposal Considerations

Dispose of unused product and contaminated packaging in accordance with applicable local, regional, and national regulations.

Avoid unnecessary release into drains, surface water, or soil.

14. Transport Information

Potassium Sorbate Food Grade is not classified as dangerous goods under ADR/RID, IMDG, IATA, or other international transportation regulations. The product is stable, non-flammable under normal transport conditions, non-corrosive, and presents no significant transport hazards when packaged and handled properly. However, the material should be protected from moisture, contamination, excessive heat, and package damage to preserve product quality throughout transportation.

UN Number: Not regulated.

UN Proper Shipping Name: Not regulated.

Transport Hazard Class: Not regulated.

Packing Group: Not regulated.

Environmental Hazard: Not classified as environmentally hazardous.

Marine Pollutant: No.

Road Transport (ADR/RID): Potassium Sorbate Food Grade is not regulated as dangerous goods for road or rail transportation. Transport the product in clean, dry, tightly sealed HDPE bags, fiber drums, laminated bags, or approved food-grade containers. Protect packages from rain, excessive humidity, contamination, and physical damage during loading, unloading, and transit.

Sea Transport (IMDG): The product is not regulated under the International Maritime Dangerous Goods (IMDG) Code and is not considered a marine pollutant. Containers should remain tightly sealed and protected from seawater, moisture, excessive humidity, and contamination throughout shipment.

Air Transport (IATA): The product is not regulated as dangerous goods under International Air Transport Association (IATA) regulations. Standard commercial packaging is acceptable provided containers remain securely sealed and protected from moisture and mechanical damage.

Special Transport Precautions:

- Transport only in clean, dry, tightly sealed containers.
- Protect from moisture, rain, and direct sunlight.
- Prevent package damage during loading and unloading.
- Keep away from strong oxidizing agents and incompatible chemicals.
- Avoid contamination during transportation.
- Secure cargo properly to prevent shifting during transit.

- Maintain good storage and transportation practices to preserve food-grade quality.

Transport in Bulk According to MARPOL Annex II and IBC Code: Not applicable.

Emergency Transport Information: If accidental spillage occurs during transportation, isolate the affected area if necessary and avoid generating excessive dust. Sweep or vacuum the spilled material carefully into suitable containers for recovery or disposal. Prevent unnecessary release into drains, sewers, or natural waterways. Personnel involved in cleanup should wear appropriate respiratory protection where dust is present, along with gloves, eye protection, and suitable protective clothing. Dispose of recovered material according to applicable environmental regulations.

15. Regulatory Information

- Potassium Sorbate Food Grade should be handled in accordance with applicable food safety, occupational safety, environmental protection, and chemical handling regulations.
- The product is not classified as hazardous under the Globally Harmonized System (GHS) when used under recommended conditions.

16. Other Information

The information contained in this Material Safety Data Sheet is based on current scientific knowledge and industrial experience. It is intended solely to provide guidance for the safe handling, storage, transportation, and disposal of the product. It should not be interpreted as a guarantee of product properties or suitability for any specific application. Users are responsible for ensuring compliance with all applicable local, national, and international regulations.

- **MSDS Generate Date:** 20-05-2017
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- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.