

Material Safety Data Sheet (MSDS)

Product Name: Potassium Bicarbonate Food Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd

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1. Identification of the Substance/Preparation and Company

- **Chemical Name:** Potassium Bicarbonate
- **Synonyms:** Potassium Hydrogen Carbonate, KHCO_3
- **CAS Number:** 298-14-6
- **Food Grade:** Yes

2. Composition / Information on Ingredients

- The product consists of **Potassium Bicarbonate (KHCO_3)** $\geq 99\%$ Food Grade.

3. Physical and Chemical Properties

- Appearance: White crystalline powder
- Odor: Odorless
- Solubility: Soluble in water, insoluble in ethanol
- Melting Point: Decomposes at 100–120°C
- pH: 8.3 (1% aqueous solution)

4. Hazards Identification

- **GHS Classification:** Not classified as hazardous
- May cause mild irritation to eyes or skin upon prolonged contact
- Non-flammable, non-toxic under normal conditions

5. First Aid Measures

- **Inhalation:** Move to fresh air, seek medical attention if symptoms persist
- **Skin Contact:** Wash with soap and water
- **Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes
- **Ingestion:** Rinse mouth, drink water, do not induce vomiting; seek medical attention if necessary

6. Firefighting Measures

- **Extinguishing Media:** Water spray, foam, dry chemical
- **Special Hazards:** Releases CO₂ when heated above decomposition temperature
- **Protective Equipment:** Wear self-contained breathing apparatus and protective clothing

7. Accidental Release Measures

- Sweep up carefully, avoid dust formation
- Use appropriate PPE (gloves, mask)
- Avoid release into waterways
- Dispose according to local regulations

8. Handling and Storage

- Handle in well-ventilated areas
- Avoid dust generation and inhalation
- Store in a cool, dry place in tightly sealed containers
- Keep away from moisture and incompatible substances

9. Exposure Controls / Personal Protection

- **Engineering Controls:** Local exhaust ventilation recommended
- **Respiratory Protection:** Dust mask if exposure exceeds limits
- **Hand Protection:** Gloves
- **Eye Protection:** Safety goggles
- **Skin Protection:** Protective clothing

10. Stability and Reactivity

- **Stability:** Stable under normal conditions
- **Conditions to Avoid:** High humidity, strong acids
- **Incompatible Materials:** Strong acids (releases CO₂), strong oxidizers
- **Decomposition Products:** CO₂ and potassium carbonate

11. Toxicological Information

- **Acute Toxicity:** Low toxicity
- **Skin/Eye Irritation:** May cause mild irritation
- **Chronic Effects:** Not known
- **Carcinogenicity/Mutagenicity:** Not classified

12. Ecological Information

- **Persistence/Degradability:** Biodegradable
- **Bioaccumulation:** Low potential
- **Aquatic Toxicity:** Low; avoid large quantities in water

13. Disposal Considerations

- Dispose according to local, state, and national regulations
- Avoid releasing large amounts into the environment

14. Transport Information (Detailed)

- **UN Number:** Not classified as hazardous
- **Proper Shipping Name:** Potassium Bicarbonate
- **Transport Class:** Not regulated under ADR, IMDG, IATA
- **Packing Group:** Not applicable
- **Transport Precautions:**
 - Ensure containers are tightly closed and dry
 - Protect from moisture and water contact
 - Avoid dust generation during handling and transport
 - Keep away from incompatible materials such as strong acids
 - Vehicles should be ventilated and drivers instructed on proper handling

- **Emergency Procedures:** In case of spill or accident, follow standard chemical spill response, avoid direct inhalation of dust, and keep material away from fire or ignition sources.

15. Regulatory Information

- Complies with local and international food grade regulations
- Not classified as hazardous under GHS, OSHA, or EU regulations
- No specific labeling requirements beyond standard handling precautions

16. Other Information

- **Disclaimer:** Information provided is based on current knowledge and intended for safety guidance only; not a guarantee of product properties.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.