

## MATERIAL SAFETY DATA SHEET

**Revision Date: 01.12.2025**

### **1. Identification**

Product Name: Potassium Bicarbonate

CAS No: 298-14-6

Synonym: No information available

Recommended Use: Laboratory chemicals, Industrial use and pharmaceuticals.

Details of the supplier of the safety data sheet

Company: Chemignition Laboratory. India.

Emergency Contact detail: [www.chemignition.com](http://www.chemignition.com)

### **2. Hazard(s) identification**

GHS Classification: Not classified as hazardous under GHS

Signal Word: None

Hazard Statements:

Generally regarded as safe (GRAS) in permitted applications

May cause mild irritation to eyes, skin, or respiratory system on prolonged exposure

Pictograms: None required

### **3. Composition/Information on Ingredients**

Substance: Potassium Bicarbonate

Purity:  $\geq 99\%$

Chemical Formula: 298-14-6

Concentration:  $\geq 99\%$

### **4. First-Aid Measures**

General: Remove contaminated clothing and wash before reuse.

Inhalation: Move to fresh air. If symptoms persist, seek medical attention.

Skin Contact: Wash with soap and water. Get medical help if irritation occurs.

Eye Contact: Rinse with plenty of water for at least 15 minutes. Seek medical attention if irritation continues.

Ingestion: Rinse mouth with water. If large amount is ingested, seek medical help.

### **5. Fire-Fighting Measures**

Flammability: Non-flammable.

**Suitable Extinguishing Media:** Use extinguishing media suitable for surrounding fire.

**Protective Equipment:** Firefighters wear self-contained breathing apparatus.

## **6. Accidental release measures**

**Personal Precautions:** Use PPE. Avoid breathing vapors.

**Environmental Precautions:** Prevent entry into sewers or water systems.

**Cleanup Methods:** Absorb with inert material and place in suitable container.

## **7. Handling and storage**

**Handling:** Avoid dust inhalation and eye/skin contact.

**Storage:** Store in tightly closed container. Keep in cool, dry, well-ventilated place.

## **8. Exposure Controls/Personal Protection**

**Engineering Controls:** Local exhaust ventilation required.

**Personal Protective Equipment:**

**Respiratory:** NIOSH approved respirator if exposure limits are exceeded.

**Hands:** Chemical resistant gloves.

**Eyes:** Safety goggles or face shield.

**Body:** Lab coat or protective clothing.

## **9. Physical and Chemical Properties**

**Appearance:** White, crystalline powder or granules

**Odor:** No information available

**Boiling Point:** Not available

**pH (1% solution):** 8.2 – 8.6

**Solubility:** Soluble in water

## **10. Stability and Reactivity**

**Stability:** Stable under normal conditions

**Conditions to Avoid:** Heat, moisture

**Incompatible Materials:** Strong acids (releases CO<sub>2</sub>), strong oxidizers

**Hazardous Decomposition Products:** Carbon dioxide (CO<sub>2</sub>), potassium carbonate (K<sub>2</sub>CO<sub>3</sub>)

## **11. Toxicological Information**

### **Acute Toxicity**

**Oral LD50 (rat):** > 2,000 mg/kg (low toxicity)

**Potential Health Effects:**

**Inhalation:** May cause respiratory irritation.



Skin: May cause mild irritation.

Eyes: Causes irritation.

Ingestion: May cause nausea, vomiting, abdominal pain.

## **12. Ecological Information**

Ecotoxicity: Do not empty into drains.

Persistence and Degradability: No information available

Bioaccumulation/ Accumulation: No information available.

Mobility: No information available.

## **13. Disposal Considerations**

### **Waste Disposal Methods**

Chemical waste generators must determine whether a discarded chemical is classified as a Hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## **14. Transport Information**

UN Number: Not regulated as hazardous for transport.

DOT/IMDG/IATA: Not classified as dangerous goods.

## **15. Regulatory Information**

Complies with OSHA Hazard Communication Standard (29 CFR 1910.1200)

GHS Labels and Classification apply

Not classified as hazardous under most international regulations.

Listed as Generally Recognized As Safe (GRAS) by FDA for food applications

Complies with REACH and other chemical regulations

## **16. Other Information**

**Prepared By:** Chemignition Laboratory

### **Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, Transportation, disposal and release and is not to be considered a warranty or quality specification. The information Relates only to the specific material designated and may not be valid for such material used in combination with any other Materials or in any process, unless specified in the text.

**End of MSDS**