

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

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 CO₂), strong oxidizers

Hazardous Decomposition Products: Carbon dioxide (CO₂), potassium carbonate (K₂CO₃)

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