



**Fisher Science
Education**

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MATERIAL SAFETY DATA SHEET

593329

MSDS No.: PP0340
Effective Date: January 1, 2010

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Potassium Bicarbonate
Chemical Synonyms	Potassium Acid Carbonate; Potassium Hydrogen Carbonate
Formula	KHCO ₃
Unit Size	up to 2.5 Kg.
C.A.S. No.	298-14-6



CHEMTREC
800-424-9300
Day 585-226-6177

Health	1
Fire	0
Reactivity	0

NFPA

HAZARD RATING
MINIMAL SLIGHT MODERATE SERIOUS SEVERE
0 1 2 3 4

HMIS *

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Potassium bicarbonate	100%	None established.

CAUTION!

MAY CAUSE IRRITATION OF THE EYES, SKIN AND RESPIRATORY TRACT.

SECTION III PHYSICAL DATA

Melting Point (°F)	Decomposes 100°-120°C (212°-248°F)	Specific Gravity (H ₂ O = 1)	2.17
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (= 1)	N/A
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	36 grams per 100 mL. water at 20°C.		
Appearance & Odor	Colorless, transparent crystals, white granules or white powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	Material will not burn. Use any media suitable for extinguishing supporting fire.				

SPECIAL FIREFIGHTING PROCEDURES

None required. Product is an inherent fire retardant. In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce carbon dioxide as a decomposition product. Reacts with acids and acid fumes.

SECTION V HEALTH HAZARD DATA

PP0340

Threshold Limited Value None established. (ACGIH 2001). Toxicity data: Oral-rat: LD50: >5000 mg/mg (Potassium carbonate).

Effects of Overexposure

INHALATION: Dust may cause mild respiratory tract irritation. **EYES:** May cause mild irritation upon prolonged exposure. **SKIN:** May cause mild irritation upon prolonged exposure. Prolonged contact with abraded skin may cause irreversible damage. **INGESTION:** Non-toxic. Exercise appropriate procedures to minimize potential hazards. Target organs: None known.

Emergency and First Aid Procedures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. **EYES:** Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	High temperatures cause decomposition to potassium carbonate, water and carbon dioxide.
	Stable	X		

Incompatibility (Materials to Avoid) Reacts with acids to yield acid salts, water and carbon dioxide.

Hazardous Decomposition Products Gaseous carbon dioxide.

Hazardous Polymerization	Conditions to Avoid
May Occur	Will Not Occur
	X
	Not applicable.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Sweep up and place in a suitable container for reclamation or proper disposal. Wash spill area with soap and water.

Waste Disposal Method Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Dispose of with an approved chemical disposal service in accordance with government regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None should be needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask.

Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves Rubber if needed. **Eye Protection** Chemical safety goggles.

Other Protective Equipment Lab coat, eye wash station, proper gloves.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place away from acids and acid fumes. Wash thoroughly after handling.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Avoid contact with skin and eyes. Avoid breathing dusts. Use with adequate ventilation. Remove and wash contaminated clothing.

Revision No. 6	Date 01/01/10	Approved James A. Bertsch	Chemical Safety Coordinator JAB
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Approved by U.S. Department of Labor "essentially similar" to form OSHA-20