

Material Safety Data Sheet

Potassium Bicarbonate
 MSDS# 19230 Section 1 - Chemical Product and Company Identification
 MSDS Name: Potassium Bicarbonate
 Catalog Numbers: 880-31, S93329, NC9074-66, P184-500, P235-212, P235-500, P23512LC,
 XXF-842, 5KG

Synonym: Potassium Hydrogen Carbonate; Baking Soda.
 Company Identification: Fisher Scientific
 Ore Reagent Lane
 Fair Lawn, NC 27410

For information in the US, call:
 201-796-7100
 CHEMTRON Number US: 201-796-7100
 CHEMTRON Product Line Number: US: 800-424-9300
 Section 2 - Composition, Information on Ingredients

CAS# : 298-14-6
 Chemical Name: Carbonic Acid, Monopotassium Salt
 % : 100
 EINECS# : 206-059-0

Hazard Symbols:
 None listed
 Risk Phrases:
 None listed

Section 3 - Hazards Identification
 EMERGENCY OVERVIEW
 Caution: May cause eye and skin irritation. May cause respiratory and digestive tract irritation.
 Target Organs: None
 Potential Health Effects
 Eyes: May cause eye irritation.

Skin: May cause skin irritation.
 Ingestion: May cause irritation of the digestive tract.
 Inhalation: May cause respiratory tract irritation.
 Chronic: No information found.

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
 Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.
 Ingestion: If victim is conscious and alert, give 2-4 cupsful of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
 Notes to Physician: Section 5 - First Aid Measures

General Information:
 As in any fire, wear a self contained breathing apparatus in pressure demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
 Extinguishing Media: Use water, dry chemical, chemical foam, or alcohol-resistant foam. Use agent most appropriate to extinguish fire.

Autoignition Temperature: None.
 Flash Point: Not available
 Explosion Limits: Lower: None
 Explosion Limits: Upper: None
 NFPA Rating:
 Health: 1; Flammability: 3; Instability: 3
 General Information: Section 6 - Accidental Release Measures

Spills/Leaks:
 Use proper personal protective equipment as indicated in section 8.
 Clean up spills immediately, observing precautions in the protective equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.
 Section 7 - Handling and Storage

Handling: Use with adequate ventilation. Avoid contact with skin and eyes. Keep container tightly closed. Avoid ingestion and inhalation. Wash clothing before reuse.

Storage: Store in a cool, dry place. Keep container closed when not in use.
 Engineering Controls: Section 8 - Exposure Controls, Personal Protection
 Exposure Limits: Use adequate ventilation to keep airborne concentrations low.

Chemical Name	ACGIH	NIOSH	CSHA - Final PELs
Carbonic Acid, Mono	None listed	None listed	None listed
Potassium Salt			

OSHA Vacated PELs:
 Carbonic Acid, Monopotassium Salt:
 None listed

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as determined by OSHA's eye and face protection regulations in: 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.
 Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
 Section 9 - Physical and Chemical Properties

Physical State: Crystalline powder
 Color: Clear to white
 Odor: None
 Water Pressure: 9.2-10.5K solution
 Vapor Density: Not available
 Relative Density: Not available
 Melting Point: Not available
 Boiling Point: Not available
 Decomposition: 100 deg C (212.00K)
 Decomposition Temperature: Soluble in water.
 Solubility in Water: 2.17
 Molecular Formula: KHCO3
 Molecular Weight: 100.1035
 Section 10 - Stability and Reactivity

Chemical: Stable under normal temperatures and pressures.
 Conditions to Avoid: Dust generation.
 Incompatible with Other Materials: Incompatible with other materials.
 Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, oxides of carbon.

Hazardous Polymerization: None
 Has not been reported.
 Section 11 - Toxicological Information

Reproductive Data: Section 14-6: EG1810030
 CAS# 29814-6
 RTECS: Not available.
 Carcinogenicity: Not listed as a carcinogen by AICHI, IARC, NTP, or CA Prop 65.
 Epithelium: Not available
 Irritation: Not available
 Sensitization: Not available
 Neurotoxicity: Not available
 Mutagenicity: Not available
 Other: Not available

Other: Section 12 - Ecological Information
 Section 13 - Disposal Considerations
 Chemical waste generators must determine whether a discarded chemical

is classified as a hazardous waste.
The SDS listings for this classification determination are listed in
40 CFR Parts 261.3. Additionally, waste generators must consult state
and local hazardous waste regulations to ensure complete and accurate
classification.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

US DOT Section 14 - Transport Information
Shipping Name: Not regulated as a hazardous material
UN Number:
UN Name:
UN Hazard Class:
UN Packing Group:

Canada TPC: Not available
Shipping Name:
Hazard Class:
UN Number:
UN Packing Group:

US Federal Regulatory Information:
MSDS

CAS# 298-14-6 is listed on the TSCA inventory.
None of the chemicals are on the Health & Safety Reporting List.
None of the chemicals are under a Chemical Test Rule.
None of the chemicals are listed under TSCA Section 12b.
None of the chemicals are listed under TSCA Section 12c.
None of the chemicals are listed under TSCA Section 12d.
None of the chemicals are listed under TSCA Section 12e.
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