


Section 1: Identification

Common Name/Trade Name	POTASSIUM BICARBONATE USP	
Supplier Information	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	IN CASE OF EMERGENCY: Chemtrec 1 (800) 424-9300 (24 hours)
Product Synonym(s)	Carbonic acid, monopotassium salt, KBC, Pot bicarb, Potassium acid carbonate, Anhydrous potassium bicarbonate, Potassium hydrogen carbonate	
Relevant Use(s) of Product	Manufacture or Compounding of Substances	

Section 2: Hazards Identification

Classification of Substance or Mixture	Skin (Category 3), Eye (Category 2B), Acute Toxicity Inhalation (Category 4), Target Organ Toxicity (single exposure) (Category 3)	
Signal Word	Warning	
Hazard Statement(s)	H316 Causes mild skin irritation H320 Causes eye irritation H332 Harmful if inhaled H335 May cause respiratory irritation	
Pictogram(s)		
Precautionary Statement(s)	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P304+P340 IF INHALED Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. continue rinsing. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P332+P313 If skin irritation occurs Get medical advice/attention. P337+P313 If eye irritation persists Get medical advice/attention. P403+P233 Store in a well ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/container to an approved waste disposal plant.	
Hazards Not Otherwise Classified	None Known	
Ingredient(s) with Unknown Toxicity	No data available	

Section 3: Composition/Information on Ingredients

Chemical Name	Potassium Bicarbonate	
Common Name	Potassium Bicarbonate	
CAS Number	298-14-6	
Material	Percent	CAS
Potassium Carbonate	<2.5	584-08-7
Impurities	0-2.5	AT15610
Impurities and/or Stabilizing Additives	No data available	

Section 4: First Aid Measures

General Advice	Notes to Physician: This material dissociated into potassium and bicarbonate ions upon contact with water.
If Inhaled	If inhaled and adverse effects occur, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
In Case of Skin Contact	Brush off excess chemical. Flush contaminated areas with water. If skin irritation occurs: Get medical advice/ attention.
In Case of Eye Contact	Immediately flush contaminated eyes with a directed stream of water for as long as possible. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If Swallowed	No hazard expected. If large amounts are ingested, get medical advice/attention.
Most Important Symptoms and Effects	No delayed / chronic effects have been identified. Medical Conditions Aggravated by Exposure: May aggravate preexisting conditions, such as: eye disorders that decrease tear production or have reduced integrity of the eye; skin disorders that compromise the integrity of the skin.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Use extinguishing agents appropriate for surrounding fire.
Special Hazards Arising From the Substance/Mixture	Negligible fire hazard. Hazardous Combustion Products: Oxides of carbon, Potassium oxides, Heating above 100 Å°C may cause dangerous levels of carbon dioxide gas to be present in the atmosphere
Special PPE and/or Precautions for Firefighters	Fire Fighting: Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	Avoid breathing dust. Avoid contact with skin and eyes. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product.
Methods and Materials Used for Containment	Shovel dry material into suitable container. Flush spill area with water, if appropriate.
Cleanup Procedures	Shovel dry material into suitable container. Flush spill area with water, if appropriate. Keep out of water supplies and sewers. Releases should be reported, if required, to appropriate agencies.

Section 7: Handling and Storage

Precautions for Safe Handling	Avoid breathing dust. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Do not reuse containers. Wear personal protective equipment as described in Exposure Controls/Personal Protection (Section 8) of the SDS.
Conditions for Safe Storage	Store and handle in accordance with all current regulations and standards. Keep container tightly closed and properly labeled. Material is very hygroscopic. Store in a cool, dry area. Keep separated from incompatible substances (see below or Section 10 of the Safety Data Sheet). Incompatibilities/ Materials to Avoid: Lime, acids, Prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys.

Section 8: Exposure Controls/Personal Protection

Components with Workplace Control Parameters	Potassium Bicarbonate/CAS Number 298-14-6: ACGIH TWA, ACGIH STEL, ACGIH Ceiling, OSHA TWA (Vacated), OSHA STEL (Vacated), and OSHA Ceiling (Vacated): -----
Appropriate Engineering Controls	Provide local exhaust ventilation where dust or mist may be generated. Ensure compliance with applicable exposure limits.
PPE - Eye/Face Protection	Wear safety glasses with side-shields. If eye contact is likely, wear chemical resistant safety goggles.
PPE - Skin Protection	Wear appropriate chemical resistant gloves. Consult a glove supplier for assistance in selecting an appropriate chemical resistant glove. Protective Material Types: Neoprene, Nitrile, Butyl rubber, Natural rubber
PPE - Body Protection	When potential for contact with dry material exists, wear disposable coveralls suitable for dust exposure, such as Tyvek. When potential for contact with wet material exists, wear Tychem or similar chemical protective suit. Contaminated clothing should be removed and laundered before reuse.
PPE - Respiratory Protection	A NIOSH approved respirator with high efficiency particulate air (HEPA) cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. When an air purifying respirator is not adequate for spills and/or emergencies of unknown concentrations, an approved self-contained breathing apparatus operated in the pressure demand mode is required. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

Section 9: Physical and Chemical Properties

Appearance	Physical State: Solid. Appearance: Granular, Powder. Color: White
Upper/Lower Flammability or Explosive Limits	No data available
Odor	Odorless
Vapor Pressure	No data available
Odor Threshold	No data available. No odor warning properties.
Vapor Density	No data available
pH	slightly basic in solution; pH 8.2 for 1% solution at 25°C
Relative Density	2.17
Melting Point/Freezing Point	Decomposes before melting.
Solubility	Water solubility 23% @ 20 °C
Initial Boiling Point and Boiling Range	Not applicable
Flash Point	Not flammable
Evaporation Rate	Not applicable
Flammability (Solid, Gas)	Not flammable
Partition Coefficient	No data available
Auto-Ignition Temperature	Not applicable
Decomposition Temperature	212 - 392 °F (100 - 200 °C)
Viscosity	Not applicable to solids

Section 10: Stability and Reactivity

Reactivity	Not reactive under normal temperatures and pressures.
Chemical Stability	Stable at normal temperatures and pressures.
Possibility of Hazardous Reactions	Temperatures above 100 °C (212 °F). Avoid contact with lime to prevent formation of corrosive potassium hydroxide (KOH).
Conditions to Avoid	(e.g., static discharge, shock, or vibration) -. None known.
Incompatible Materials	Lime, acids, Prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys
Hazardous Decomposition Products	Potassium oxides, oxides of carbon, Heating above 100 °C may cause dangerous levels of carbon dioxide gas to be present in the atmosphere. Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	Potassium Bicarbonate: 2064 mg/kg oral-rat LD50. Potassium Carbonate 584-08-7: 1870 mg/kg (Rat)
Acute Toxicity - Inhalation	> 4.88 mg/L (4.5 hr - Rat)
Acute Toxicity - Dermal	>2000 gm/kg skin-rabbit LD50
Acute Toxicity - Eye	Eyes - Rabbit Result: Mild eye irritation
Skin Corrosion/Irritation	Category 3 - Causes mild skin irritation
Serious Eye Damage/Irritation	Category 2B - Causes eye irritation
Respiratory or Skin Sensitization	Not classified as a skin sensitizer per GHS criteria. This material when applied to the skin of guinea pigs did not elicit any dermal sensitization reaction.
Germ Cell Mutagenicity	No data available
Carcinogenicity IARC	This product is not classified as a carcinogen by NTP, IARC or OSHA.
Carcinogenicity ACGIH	This product is not classified as a carcinogen by NTP, IARC or OSHA.
Carcinogenicity NTP	This product is not classified as a carcinogen by NTP, IARC or OSHA.
Carcinogenicity OSHA	This product is not classified as a carcinogen by NTP, IARC or OSHA.
Reproductive Toxicity	No data available
Specific Target Organ Toxicity - Single Exposure	Category 3 - Respiratory Tract Irritation
Specific Target Organ Toxicity - Repeated Exposure	No data available
Aspiration Hazard	No data available

Section 12: Ecological Information

Toxicity	Fish Toxicity: 1500 mg/L 96 hour(s) LC50 Bluegill sunfish (practically nontoxic); 1300 mg/L 96 hour(s) LC50 Rainbow trout (practically nontoxic) Invertebrate Toxicity: 1200 mg/L 48 hour(s) EC50 Daphnia magna (practically nontoxic)
Persistence and Degradability	This material is believed not to persist in the environment.
Bio-accumulative Potential	This material is inorganic and not subject to biodegradation.
Mobility in Soil	No data available
Other Adverse Effects	No data available

Section 13: Disposal Considerations

Waste Treatment Methods Product	Reuse or reprocess, if possible. Dispose in accordance with all applicable regulations.
Waste Treatment Methods Packaging	Dispose of container in accordance with applicable local, regional, national, and/or international regulations. Container rinsate must be disposed of in compliance with applicable regulations.
Special Precautions Landfill or Incinerations	No data available
Other Information	No data available

Section 14: Transport Information

UN Number	Not dangerous goods.
UN Proper Shipping Name	N/A
Transport Hazard Class(es)	N/A
Packaging Group	N/A
Environmental Hazards	N/A

Section 15: Regulatory Information

U.S. REGULATIONS OSHA REGULATORY STATUS: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200) CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4): Not regulated. SARA EHS Chemical (40 CFR 355.30) Not regulated. EPCRA SECTIONS 311/312 HAZARD CATEGORIES (40 CFR 370.10): None. EPCRA SECTION 313 (40 CFR 372.65): Not regulated. OSHA PROCESS SAFETY (PSM) (29 CFR 1910.119): Not regulated NATIONAL INVENTORY STATUS U.S. INVENTORY STATUS: Toxic Substance Control Act (TSCA): All components are listed or exempt. TSCA 12(b): This product is not subject to export notification. Canadian Chemical Inventory: All components of this product are listed on either the DSL or the NDSL. STATE REGULATIONS There are no applicable state regulations for this product or its components. CANADIAN REGULATIONS All components of this product are listed on either the DSL or the NDSL. WHMIS - Classifications of Substances: â?¢ Not regulated

Section 16: Other Information

Additional Information	N/A
Prepared By	Scarlotte Smith
Revision Date	04/05/2016 12:12

Disclaimer

Letco Medical, LLC believes that the above information is correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. If the product is used as a component in another product, this information may not be applicable. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED ABOVE. Letco Medical shall not be held liable for any loss or damage resulting from handling, storage, use or from contact with the above product.