

MATERIAL SAFETY DATA SHEET

Science Kit
& Boreal
Laboratories

MSDS No. PP 420
Effective Date July 1, 1986

24 HOUR EMERGENCY ASSISTANCE

SECTION I	NAME	CHEMTREC	Health	2
Product	POTASSIUM CARBONATE	800-424-9300	Fire	0
Chemical Synonyms	Potash	716-334-4272	Reactivity	1
Formula	K ₂ CO ₃	716-334-4222		
Unit(s) Size	100, 500 grams, 2.5 Kg.			
C.A.S. No.	584-08-7			

HAZARD RATING	HAZARDOUS INGREDIENTS OF MIXTURES	TLV Units
0 1 2 3 4		

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)	%	TLV Units
Potassium Carbonate	100%	None established

CAUTION! IRRITANT-HARMFUL IF SWALLOWED.

SECTION III PHYSICAL DATA

Melting Point (°F)	909°C (1668°F)	Specific Gravity (20 = 1)	2.428 at 19°C
Boiling Point (°F)	Decomposes	Percent Volatile by Volume (%)	Non-volatile (NA)
Vapor Pressure (mm Hg)	Negligible as solid	Evaporation Rate (N-Butyl Ac. = 1)	Non-volatile (NA)
Vapor Density (Air = 1)	Data not listed		
Solubility in Water	100 grams per 100 ml water at 20°C.		
Appearance and Odor	White, deliquescent, granular translucent powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable (NA)	Flammable Limits in Air (% by Volume)	NA
Extinguisher Media	None needed. Material is inherent fire retardant.		

SPECIAL FIREFIGHTING PROCEDURES

It's presence in a fire does not hinder the use of any standard extinguishing media. In fire conditions, wear a NIOSH-approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

No known hazards. Note decomposition beginning temperature, Section III and decomposition products, Section VI. Can react vigorously with acids and acid fumes.

D.O.T. NON-REGULATED

SECTION V HEALTH HAZARD DATA

Threshold Limited Value

None established. (ACGIH 1983-84).

Oral (rat) LD₅₀: 1870 mg/kg. Rated - Slightly toxic.

TOXICOLOGY: High dust concentrations may cause upper respiratory tract irritation.

EYES: Contact with the powder may cause eye irritation.

SKIN: Prolonged or repeated skin contact may cause skin irritation.

RESPIRATORY: Inhalation of large quantities may cause irritation of the respiratory tract.

INGESTION: If swallowed, do NOT induce vomiting. If conscious, give one or two glasses of water and call a physician.

EMERGENCY AND FIRST AID PROCEDURES

First Aid Procedures

SECTION VI REACTIVITY DATA

Stability	Conditions to Avoid	Excessive temperature and heat.
Unstable	x	
Stable		

Incompatibility (Materials to avoid)

Aluminum, Fluorine, Phosphorus pentoxide. Acids cause decomposition liberating gaseous carbon dioxide.

Hazardous Decomposition Products

Carbon dioxide (CO₂).

Hazardous Polymerization

May Occur

Will Not Occur

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.

Wash spill area with water.

Waste Disposal Method

Dissolve in water and flush to sewer with copious amounts of water.

Discharge, treatment or disposal may be subject to federal, state, or local laws.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiratory Protection

Local Exhaust

Mechanical (General)

Protective Gloves

Other Protective Equipment

Goggles, apron, eye wash station, proper gloves.

Eye Protection

Chemical safety glasses.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing

Store in a cool, dry place away from acid or acid fumes.

Wash thoroughly after handling.

Other Precautions

Read label on container before using

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Rev. No. 1 Date 1/12/87 Approved Alexander Piccirilli

Chemical Safety AP

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