



MATERIAL SAFETY DATA SHEET

Chemicals Inc.

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POTASSIUM CARBONATE, LIQUID

CHEMTREC: (800) 424-9300

SECTION I

MATERIAL IDENTIFICATION

CHEMICAL NAME:	Potassium carbonate, liquid	C.A.S. NO.:	584-08-7
TRADE NAME:	Carbonate of potash	WHMIS:	1%
SYNONYMS:	Pearl ash, potash-hydrated potassium carbonate in solution, pot carb.		
CHEMICAL FAMILY:	Alkali	SARA:	No
CHEMICAL FORMULA:	K₂CO₃	TSCA (COMPONENTS):	Yes
N.F.P.A. REGISTRY:	1-0-1	H.M.I.S.:	1-0-0-B
LABELING:	Corrosive		
D.O.T. IDENTIFICATION NO.:	UN 1760		
D.O.T. SHIPPING NAME:	Corrosive Liquid, n.o.s		
	(Potassium Carbonate Liquid)	D.O.T. HAZARD GUIDE:	154
D.O.T. HAZARD CLASS:	8	PLACARD:	UN 1760

SECTION II

INGREDIENTS AND HAZARDS

PRINCIPAL COMPONENT:	K₂CO₃	PERCENT:	47.0
	KOH <0.2%		
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS OR GASES:	This material reacts violently with acids and liberates suffocating quantities of carbon dioxide.		
ADDITIONAL INFORMATION:	ACGIH TLV = None established.		
	OSHA PEL = None established.		

SECTION III

PHYSICAL DATA

BOILING POINT:	234°F	pH:	13-14
SPECIFIC GRAVITY:	1.480		
VAPOR PRESSURE:	Slightly less than pure water.		
VAPOR DENSITY:	N/A		
MOLECULAR WEIGHT:	138.2		
APPEARANCE/ODOR:	Water white, no odor.		
PERCENT VOLATILE BY VOLUME:	53%		
EVAPORATION RATE:	Slightly less than pure water.		
SOLUBILITY IN WATER:	Complete.		
FREEZE/SOLIDIFICATION TEMP:	9° F (- 15°C)		

SECTION IV

FIRE AND EXPLOSION DATA

FLASH POINT (METHOD):	None.
EXTINGUISHING MEDIA:	Suitable for surrounding fire.
AUTO IGNITION TEMP:	Not combustible.
SPECIAL FIRE FIGHTING PROCEDURES:	If carbon dioxide is released, use an approved self-contained breathing apparatus.
ADDITIONAL INFORMATION:	If there is evidence of product decomposition, atmospheric tests should be run for carbon dioxide and oxygen content. Excessive quantities of carbon dioxide can cause suffocation of personnel in the immediate area.

SECTION V	HEALTH HAZARD DATA
OSHA PERMISSIBLE EXPOSURE LIMIT:	None.
ACGIH THRESHOLD LIMIT VALUE:	None.
IARC/NTP CARCINOGEN:	Not listed.
MUTAGENIC:	Not listed.
REPRODUCTIVE TOXICITY:	Not listed.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:	None.
PRIMARY ROUTES OF EXPOSURE:	Body contact.
EFFECTS OF EXPOSURE:	
INHALATION:	Cannot be inhaled.
SKIN:	Causes mild irritation.
EYES:	May cause injury.
INGESTION:	Causes irritation to the digestive and respiratory tract.
EMERGENCY FIRST AID:	
INHALATION:	Cannot be inhaled.
SKIN:	Wash with water.
EYES:	Wash with tempered water for 15 minutes.
INGESTION:	Drink plenty of water or fruit juice. Obtain the services of a physician immediately.
TERATOGENIC:	Not listed.
SECTION VI	REACTIVITY DATA
STABILITY:	Stable under normal conditions.
CONDITIONS TO AVOID:	Excessive heat or contact with acids incompatibility.
MATERIALS TO AVOID:	Acids and excessive heat.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon dioxide is generated when reacted with acids. Large quantities of CO₂ in an enclosed area will result in lack of oxygen and may cause suffocation of personnel.
POLYMERIZATION:	Will not polymerize.
SECTION VII	ENVIRONMENTAL PROTECTION PROCEDURES
SPILL RESPONSE:	Confine the spill into a diked area or sump if possible and recover as much of the liquid potassium carbonate as possible. The remainder may normally be washed to the sewer providing environmental control limits are not affected.
WASTE DISPOSAL METHODS:	Reclaim and reuse as much as possible.
SECTION VIII	SPECIAL PROTECTION INFORMATION
EYE PROTECTION:	Goggles and face shield.
RESPIRATORY PROTECTION:	Not required.
VENTILATION RECOMMENDED:	Not required.
GLOVE TYPE RECOMMENDED:	Rubber or plastic.
OTHER PROTECTIVE EQUIPMENT:	Emergency eyewash and safety shower.
SECTION IX	SPECIAL PRECAUTIONS
HYGIENIC PRACTICES IN HANDLING/STORING:	No unusual requirements.
PRECAUTIONS TO BE TAKEN FOR HANDLING/STORING:	Keep storage area separate from acids.
PRECAUTIONS FOR REPAIR, MAINTENANCE OF CONTAMINATED EQUIPMENT:	Drain and rinse with water.

SECTION X

TRANSPORTATION

USUAL SHIPPING CONTAINERS: **Tank cars and trucks, drums.**
USUAL SHELF LIFE: **Unlimited.**
STORAGE/TRANSPORT TEMPERATURE: **Ambient.**
SUITABLE STORAGE
MATERIALS/COATINGS: **Coated steel - plastic.**

REVIEWED: **09/08**
SUPERSEDES: **03/06**

(Determined to be corrosive, UN 1760, NFPA, HMIS, Shipping Name)
(Added WHMIS percentage)

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