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For Emergency Assistance involving chemicals call - CHEMTREC (800) 424-9300

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The Version Date for this MSDS is : 10/21/1998

PRODUCT NAME:  
POTASSIUM CARBONATE

MSDS #: MZP5609

202-483-7616  
(OUTSIDE USA & CANADA  
CANUTEC: 613-996-6666

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POTASSIUM CARBONATE

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### 1. PRODUCT IDENTIFICATION

SYNONYMS: PEARL ASH; POTASH; CARBONIC ACID, DIPOTASSIUM SALT; SALT  
OF TARTAR  
CAS NO: 584-08-7  
MOLECULAR WEIGHT: 138.21  
CHEMICAL FORMULA: K<sub>2</sub>CO<sub>3</sub>

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO	PERCENT	HAZARDOU
POTASSIUM CARBONATE	584-08-7	99 - 100%	YES

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### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

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WARNING! CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. MAY BE  
HARMFUL IF SWALLOWED.

#### POTENTIAL HEALTH EFFECTS

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INHALATION:

CAUSES IRRITATION TO THE RESPIRATORY TRACT. SYMPTOMS MAY INCLUDE COUGHING, SHORTNESS OF BREATH.

INGESTION:

CAUSES IRRITATION TO THE GASTROINTESTINAL TRACT. SYMPTOMS MAY INCLUDE NAUSEA, VOMITING AND DIARRHEA. MAY HAVE MODERATE TOXIC EFFECTS IF CONSUMED IN LARGE ENOUGH QUANTITIES. INGESTION OF LARGE AMOUNTS MAY BE CORROSIVE TO MOUTH, THROAT AND GI TRACT AND PRODUCE ABDOMINAL PAINS, VOMITING, DIARRHEA, AND CIRCULATORY COLLAPSE.

SKIN CONTACT:

CONTACT WITH DRY MATERIAL CAUSES IRRITATION. IN AQUEOUS SOLUTION IT IS A STRONG CAUSTIC AND AS SUCH MAY HAVE CORROSIVE EFFECTS ON THE SKIN.

EYE CONTACT:

CAUSES EXTREME IRRITATION, REDNESS, PAIN AND POSSIBLY CORNEAL DAMAGE.

CHRONIC EXPOSURE:

A CHRONIC DERMATITIS MAY FOLLOW REPEATED CONTACT WITH THIS SUBSTANCE.

AGGRAVATION OF PRE-EXISTING CONDITIONS:

NO INFORMATION FOUND.

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4. FIRST AID MEASURES

INHALATION:

REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION.

INGESTION:

IF SWALLOWED, DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:

IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. GET MEDICAL ATTENTION. WASH CLOTHING BEFORE REUSE. THOROUGHLY CLEAN SHOES BEFORE REUSE.

EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, LIFTING LOWER AND UPPER EYELIDS OCCASIONALLY. GET MEDICAL ATTENTION IMMEDIATELY.

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5. FIRE FIGHTING MEASURES

FIRE:

NOT CONSIDERED TO BE A FIRE HAZARD.

EXPLOSION:

NOT CONSIDERED TO BE AN EXPLOSION HAZARD. AN EXPLOSION OCCURRED AFTER MIXING SODIUM HYDROSULFITE, ALUMINUM POWDER, POTASSIUM CARBONATE AND BENZALDEHYDE.

FIRE EXTINGUISHING MEDIA:  
USE ANY MEANS SUITABLE FOR EXTINGUISHING SURROUNDING FIRE.

SPECIAL INFORMATION:  
IN THE EVENT OF A FIRE, WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE.

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6. ACCIDENTAL RELEASE MEASURES

VENTILATE AREA OF LEAK OR SPILL. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT AS SPECIFIED IN SECTION 8. SPILLS: PICK UP AND PLACE IN A SUITABLE CONTAINER FOR RECLAMATION OR DISPOSAL, USING A METHOD THAT DOES NOT GENERATE DUST.

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7. HANDLING AND STORAGE

KEEP IN A TIGHTLY CLOSED CONTAINER, STORED IN A COOL, DRY, VENTILATED AREA. PROTECT AGAINST PHYSICAL DAMAGE. ISOLATE FROM INCOMPATIBLE SUBSTANCES. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTY SINCE THEY RETAIN PRODUCT RESIDUES (DUST, SOLIDS); OBSERVE ALL WARNINGS AND PRECAUTIONS LISTED FOR THE PRODUCT.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

AIRBORNE EXPOSURE LIMITS:  
NONE ESTABLISHED.

VENTILATION SYSTEM:  
A SYSTEM OF LOCAL AND/OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURES AS LOW AS POSSIBLE. LOCAL EXHAUST VENTILATION IS GENERALLY PREFERRED BECAUSE IT CAN CONTROL THE EMISSIONS OF THE CONTAMINANT AT ITS SOURCE, PREVENTING DISPERSION OF IT INTO THE GENERAL WORK AREA. PLEASE REFER TO THE ACGIH DOCUMENT, "INDUSTRIAL VENTILATION, A MANUAL OF RECOMMENDED PRACTICES", MOST RECENT EDITION, FOR DETAILS.

PERSONAL RESPIRATORS (NIOSH APPROVED):  
FOR CONDITIONS OF USE WHERE EXPOSURE TO THE DUST OR MIST IS APPARENT, A HALF-FACE DUST/MIST RESPIRATOR MAY BE WORN. FOR EMERGENCIES OR INSTANCES WHERE THE EXPOSURE LEVELS ARE NOT KNOWN, USE A FULL-FACE POSITIVE-PRESSURE, AIR-SUPPLIED RESPIRATOR. WARNING: AIR-PURIFYING RESPIRATORS DO NOT PROTECT WORKERS IN OXYGEN-DEFICIENT ATMOSPHERES.

SKIN PROTECTION:  
WEAR IMPERVIOUS PROTECTIVE CLOTHING, INCLUDING BOOTS, GLOVES, LAB COAT, APRON OR COVERALLS, AS APPROPRIATE, TO PREVENT SKIN CONTACT.

EYE PROTECTION:  
USE CHEMICAL SAFETY GOGGLES AND/OR FULL FACE SHIELD WHERE DUSTING OR SPLASHING OF SOLUTIONS IS POSSIBLE. MAINTAIN EYE WASH FOUNTAIN AND

QUICK-DRENCH FACILITIES IN WORK AREA.

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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: BOILING POINT:  
FINE WHITE GRANULES. DECOMPOSES.

ODOR: MELTING POINT:  
ODORLESS. 891C (1636F)

SOLUBILITY: VAPOR DENSITY (AIR=1):  
SOLUBLE IN EQUAL PARTS OF COLD NO INFORMATION FOUND.  
WATER.

SPECIFIC GRAVITY: VAPOR PRESSURE (MM HG):  
2.29 NO INFORMATION FOUND.

PH: EVAPORATION RATE (BUAC=1):  
11.6 AQUEOUS SOLUTION NO INFORMATION FOUND.

% VOLATILES BY VOLUME @ 21C (70F):  
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10. STABILITY AND REACTIVITY

STABILITY:  
STABLE UNDER ORDINARY CONDITIONS OF USE AND STORAGE.

HAZARDOUS DECOMPOSITION PRODUCTS:  
CONTACT WITH ACIDS AND INVOLVEMENT IN A FIRE CAN CAUSE FORMATION OF CARBON  
DIOXIDE. THERMAL DECOMPOSITION MAY ALSO FORM POTASSIUM OXIDE.

HAZARDOUS POLYMERIZATION:  
WILL NOT OCCUR.

INCOMPATIBILITIES:  
ACIDS, CHLORINE TRIFLUORIDE, MAGNESIUM. AN EXPLOSION OCCURRED AFTER MIXING  
SODIUM HYDROSULFITE, ALUMINUM POWDER, POTASSIUM CARBONATE AND BENZALDEHYDE.

CONDITIONS TO AVOID:  
MOISTURE, HEAT, DUSTING AND INCOMPATIBLES.

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11. TOXICOLOGICAL INFORMATION

ORAL RAT LD50: 1870 MG/KG.

-----CANCER LISTS-----  
---NTP CARCINOGEN---  
INGREDIENT KNOWN ANTICIPATED IARC CATEGORY  
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POTASSIUM CARBONATE (584-08-7) NO NO NONE

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12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE:  
NO INFORMATION FOUND.

ENVIRONMENTAL TOXICITY:  
NO INFORMATION FOUND.

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13. DISPOSAL CONSIDERATIONS

WHATEVER CANNOT BE SAVED FOR RECOVERY OR RECYCLING SHOULD BE MANAGED IN AN APPROPRIATE AND APPROVED WASTE DISPOSAL FACILITY. PROCESSING, USE OR CONTAMINATION OF THIS PRODUCT MAY CHANGE THE WASTE MANAGEMENT OPTIONS. STATE AND LOCAL DISPOSAL REGULATIONS MAY DIFFER FROM FEDERAL DISPOSAL REGULATIONS.

DISPOSE OF CONTAINER AND UNUSED CONTENTS IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REQUIREMENTS.

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14. TRANSPORT INFORMATION

NOT REGULATED.

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15. REGULATORY INFORMATION

-----CHEMICAL INVENTORY STATUS - PART 1-----  
INGREDIENT TSCA EC JAPAN AUSTRALIA

POTASSIUM CARBONATE (584-08-7) YES YES YES YES

-----CHEMICAL INVENTORY STATUS - PART 2-----

--CANADA--

INGREDIENT KOREA DSL NDSL PHIL.

POTASSIUM CARBONATE (584-08-7) YES YES NO YES

-----FEDERAL, STATE & INTERNATIONAL REGULATIONS - PART 1-----

-SARA 302- -----SARA 313-----

INGREDIENT RQ TPQ LIST CHEMICAL CATG

POTASSIUM CARBONATE (584-08-7) NO NO NO NO

-----FEDERAL, STATE & INTERNATIONAL REGULATIONS - PART 2-----

-RCRA- -TSCA-

INGREDIENT CERCLA 261.33 8(D)

POTASSIUM CARBONATE (584-08-7) NO NO NO

CHEMICAL WEAPONS CONVENTION: NO TSCA 12(B): NO CDTA: NO  
SARA 311/312: ACUTE: YES CHRONIC: NO FIRE: NO PRESSURE: NO  
REACTIVITY: NO (PURE / SOLID)

AUSTRALIAN HAZCHEM CODE: NO INFORMATION FOUND.  
POISON SCHEDULE: NO INFORMATION FOUND.

WHMIS: THIS MSDS HAS BEEN PREPARED ACCORDING TO THE HAZARD CRITERIA OF  
THE CONTROLLED PRODUCTS REGULATIONS (CPR) AND THE MSDS CONTAINS  
ALL OF THE INFORMATION REQUIRED BY THE CPR.

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#### 16. OTHER INFORMATION

NFPA RATINGS:  
HEALTH: 3 FLAMMABILITY: 0 REACTIVITY: 0

For Additional Information:  
Contact: MSDS Coordinator - Univar USA  
During business hours, Pacific Time - (425) 889-3400

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END OF MSDS