Section 1. Product and Company Identification

Product Name Potassium Carbonate
CAS Number 584-08-7

Parchem - fine & specialty chemicals
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New Rochelle, NY 10801
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EMERGENCY RESPONSE NUMBER
CHEMTEL
Toll Free US & Canada: 1 (800) 255-3924
All other Origins: 1 (813) 248-0585
Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture
GHS Classification
Physical Hazards: N/A
Health Hazards: Skin corrosion/irritation Cat. 2
Serious eye damage/irritation Cat. 2
Specific Target organ Toxicity(single exposure) Cat. 3
Environmental Hazards: N/A

GHS Label Elements

Pictograms:

Signal word: WARNING

Hazard and precautionary statements
Hazard Statements
H315 Causes skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness
Precautionary Statements
P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P271 Use only outdoors or in a well-ventilated area.

Precautionary Statement - Response
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P362 Take off contaminated clothing and wash before reuse.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
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.
Precautionary Statement - Storage
P405 Store locked up.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
Precautionary Statement - Disposal
P501 Dispose of contents/container in accordance with local/regional/national/ international regulation.

Other Hazards which do not result in Classification
NFPA Rating
Health: 1
Flammability: 0
Reactivity: 0

Section 3. Composition / Information on Ingredients

Common Name Potassium Carbonate
Synonym(s) Dipotassium carbonate, Potash, Pearl ash
Formula K_2CO_3
CAS Number 584-08-7

COMPONENT	CAS NUMBER	CONCENTRATION
Potassium Carbonate	584-08-7	99.5%

Section 4. First Aid Measures

Eye Contact: Immediately lift upper and lower eyelids and flush eyes with flowing water to completely remove materials. Transport to hospital, or doctor. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact: Remove contaminated clothing and shoes immediately. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation: If inhalation of fume or combustion occurs, move to the fresh air and, if necessary or not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Ingestion: Wash out mouth with water. If swallowed do NOT induce vomiting. Lay the patient down with their head lower than their body for preventing suffocation if vomiting occurs. Get medical attention immediately.

Delayed and Immediate Effects and also Chronic Effects from Short and Long term Exposure: May cause eye, skin, and respiratory irritation when exposed. May cause lung effects from long-term exposure to dust of high concentrations. Ingestion may cause nausea, vomiting, and severe stomach and digestive system irritation and burns. Inhalation may cause respiratory irritation. Contact with skin may cause irritation and caustic effects analogous to Potassium hydroxide. Contact with eyes may cause irritation and caustic effects analogous to Potassium hydroxide.
First-aid Treatment and Note to Physician: Treatment may vary with condition of victim and specifics of incident.

Section 5. Firefighting Measures

Extinguishing Media
Suitable Extinguishing Media: Dry chemical powder, CO_2, Water, foam. For a large fire, use regular extinguishing media or flood with fine water spray.
Unsuitable Extinguishing Media: Do not use water-jet.

Specific Hazards arising from the Chemical: Non-flammable. Substance itself does not burn, but decomposes when heated may cause corrosive/toxic fume. Fire risk can be ignored but containers may rupture or explode if exposed.
Hazardous Combustion Product: Thermal decomposition may produce gas and/or fume of carbon dioxide, carbon monoxide, and potassium oxide.

Special Protection Actions and Equipment for Firefighting: Firefighters should wear self-contained breathing apparatus and protective clothing. If safe to do so, remove containers from path of fire. If removal is impossible, cool containers and surrounding area with water. Cool containers with flooding quantities of water until well after fire is out. Do not allow run-off from firefighting to enter drains or water courses. Do not impervious water inside containers.

Section 6. Accidental Release Measures

Personal Precautions: Wear appropriate personal protective equipment and avoid inhalation or contact with eyes and skin. Wear appropriate personal protective equipment (see section 8). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if you can do it without risk. Keep unnecessary people away. Ventilate leak areas. Avoid dust formation.

Isolation of Spilled Material (Small spills; Adsorption of absorbent etc.): Collect recoverable product is possible (use shovel or vacuum). Residue is neutralized by acids. Move container to safe area from the leak area. Wear personal protective equipment.

Environmental Precautions: Avoid dispersal of spilled material, runoff, and contact with soil, waterways, drains, and sewers. In case of large spill, call emergency services immediately.

Methods and Materials for Containment and Cleaning up
Small Spills: Remove the spilled material. Use to dry removal method and Suppression occurrence of dust.
Large Spills: Dispose of spilled material in appropriate containers collected. Wash spill area with plenty of water.

Section 7. Handling and Storage

Handling: Wear appropriate personal protective equipment (see section 8). Avoid contact with incompatible materials. Use in a well-ventilated area. Do not mix storage and transportation with grocery, fodder, medicines, and food products. When handling, DO NOT eat, drink, or smoke. Avoid breathing dust and contact with the eyes or skin. Wash hands with soap and water after handling. Minimize occurrence of dust and accumulation.

Storage Precautionary Statements: Save and handle according to applicable laws and regulations. The original container should be stored. Store away from water or moisture and store in dry area (strong hygroscopic property). Store in a container that can withstand physical damage. Store in cool, dry, and well ventilated place. Stored in airtight container. Do not store with Volatile Organic Compounds. Product may discolor.

Section 8. Exposure Controls / Personal Protection

Exposure Limits
Exposure Limit under ISHL (KOREA): Not applicable
ACGHIH Limit: Not applicable
Biological Exposure Limits: Not applicable

Engineering Controls: The use of local exhaust ventilation is recommended to control emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces.

Personal Protective Equipment
Respiratory Protection: Under conditions of frequent use or heavy exposure, respiratory protection may be needed.
Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use: Dust, mist, fume-purifying respiratory protection; Any air-purifying respirator with a corpuscle filter of high efficiency; Any respiratory protection with an electric fan (for dust, mist, fume-purifying)

For Unknown Concentration or Immediately Dangerous to Life or Health: Self-contained breathing apparatus (pressure-demand or other positive-pressure mode in combination); Supplied-air respirator with full face piece.

Eye Protection: Wear primary eye protection such as splash resistant safety goggles with a secondary face shield. Provide an emergency eye wash station and quick drench shower in the immediate work area.
Hand Protection: Wear appropriate protective gloves.
Body Protection: Wear appropriate protective cloth.

Section 9. Physical and Chemical Properties

Appearance: Solid / Colorless or white
Odor: Odorless
Odor Threshold: Not available
pH: 11.0 (0.02 M Solution)
Melting Freezing Point: 5°F (-15°C)
Initial Boiling Point/Range: Decomposition / 234°F (-112°C) / Not available
Flash Point: Not available
Evaporation Rate: Not available
Flammability (Solid, Gas): Not available
Upper/Lower Flammability or explosive limits: Not available
Vapor Pressure: 12 mmHg (20°C)
Solubility: Soluble (water)
Vapor Density: Not available
Relative Density: 1.496 (15.6°C) (Water=1)
Partition Coefficient (n-Octanol/Water): Not available
Auto-ignition Temperature: Not available
Decomposition Temperature: Not available
Viscosity: Not available
Molecular Weight: 138.21

Section 10. Stability and Reactivity

Stability: This material is stable under recommended storage at normal temperature and pressure.

Possibility of Hazardous Reaction
Polymerization: Will not occur.

Conditions to Avoid: Keep away from heat, flame, sparks and source of ignition.
Materials to Avoid: Avoid contact with oxidizers (Acids, nitrates, chlorine bleach, the chlorine used in pools). Because the reaction with Aluminum, Fluoro, Magnesium, Silicon, Chlorine Trifluoride, Powder metal should be avoided.
Hazardous Decomposition Products: Carbon compounds, potassium and it's compounds.

Section 11. Toxicological Information

Information of Exposure Route:
Respiratory: May cause respiratory irritation.
Oral: Not Classified.
Eye/Skin: Causes serious eye irritation, Causes skin irritation.

Delayed and Immediate Effects and also Chronic Effects from Short and Long Term Exposure
Acute Toxicity
Oral Toxicity: LD50 > 2000 mg/kg b.w. (Rat)
Dermal Toxicity: Not available
Inhalation Toxicity: Not available

Skin Corrosion/Irritation: Irritation is observed.
Serious Eye Damage/Irritation: Irritation is observed.
Respiratory Sensitization: Not available
Skin Sensitization: In the intracutaneous skin sensitization test, allergic skin reactions are not observed.

Carcinogenicity: Not applicable

Germ Cell Mutagenicity
Ames Test: Negative
Gene Mutation(mammalian cell gene mutation assay): Negative
Chromosome Aberration (mammalian chromosome aberration test): Negative

Reproductive Toxicity: No adverse effects were observed in the reproductive sturdy using the rats for high concentration.
Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation.
Specific Target Organ Toxicity (Repeated Exposure): No adverse effects are observed in the repeated exposure sturdy using the rodents.

Aspiration Hazard: Not available

Section 12. Ecological Information

Ecotoxicity
Acute Aquatic Toxicity
Fish: LC50=68mg/L, 96hr, Oncorhynchus mykiss
Daphnia magna: EC50=430 mg/L, 48hr, Daphnia magna (non-GLP)
Algae: Not available

Persistence and Degradability: Not available
Bioaccumulation: Not available
Mobility in Soil: Not available
Other Adverse Effects: Not available

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

UN Number: Not regulated for transport of dangerous goods
UN Proper Shipping name: Not applicable
Transport hazard class(es): Not applicable
Packing group: Not applicable
Sea pollutants: Not applicable

Special precautions for user related to transport or transportation measures:
EmS FIRE SCHEDULE: Not applicable
EmS SPILLAGE SCHEDULE: Not applicable

CANADIAN TRANSPORTATION OF DANGEROUS GOODS
Proper Shipping Name: Not regulated under TDG
TDG Classification: Not Applicable
UN Number (PIN): Not Applicable
Packing Group: Not Applicable

Section 15. Regulatory Information

ISHL (The industrial Safety and Health Law in Korea): Not applicable
The Toxic Chemical Control Act in Korea (TCCA in Korea): Not applicable
Dangerous goods Safety Management Law in Korea: Not applicable
Waste Management Law in Korea: Not applicable

Other Regulations
POPs Management Law: Not applicable

Information of EU Classification
Classification: Not Classification
Symbol(s) and Indication(s) of Danger: Not applicable
Risk and Safety Phrases: Not applicable

US Regulations
CERCLA Section 103 (40 CFR 302.4): Not regulated
SARA Section 302 (40 CFR 355.30): Not regulated
SARA Section 304 (40 CFR 355.40): Not regulated

SARA Hazard Categories, SARA Section 311/312 (40 CFR 370.21)
Acute: Yes
Chronic: No
Fire: No
Reactive: No
Sudden Release: No

SARA Section 313 (40 CFR 372.65): Not regulated
OSHA Regulation (29 CFR 1910.119): Not regulated

US State Regulations
California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act): Not regulated

Chemical Inventory Status
US Inventory (TSCA): Listed.
TSCA 12(b) Export Notifications: Not listed.

Others
Rotterdam Convention on Harmful Chemicals & Pesticides: Not applicable
Stockholm Convention on Persistent Organic Pollutants: Not applicable
Montreal Protocol on Substances That Deplete the Ozone Layer: Not applicable

Canadian Regulations: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations

WHMIS - Classifications of Substances
D2B - Poisonous and Infectious Material; Materials causing other toxic effects
Toxic Material

Workplace Hazard: Severe eye irritant

Section 16. Other Information

Disclaimer: The above information is believed to be 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. It does not represent any guarantee of the properties of the product.

REVISION DATE: 6/2/2015