

# SAFETY DATA SHEET



## LIQUID POTASSIUM CARBONATE

MSDS No.: M1251

Rev. Date: 2009-Sept-01

Rev. Num. 02

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Company Identification:** Armand Products Company  
North Harrison Street  
Princeton, NJ 08543-5297

**24 Hour Emergency Telephone Number:** 1-800-733-3665 or 1-972-404-3228 (U.S.); 32.3.575.55.55 (Europe); 1800-033-111 (Australia)

**To Request an MSDS:** MSDS@oxy.com or 1-972-404-3245

**Customer Service:** 1-800-522-0540 or 1-609-683-5900

**Trade Name:** Potassium Carbonate

**Synonyms:** Potash, PotCarb, Pearlash

**Product Use:** Process chemical, Cleaner

### 2. HAZARDS IDENTIFICATION

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#### EMERGENCY OVERVIEW:

**Color:** Colorless  
**Physical State:** Liquid  
**Appearance:** Clear  
**Odor:** Odorless  
**Signal Word:** WARNING

**MAJOR HEALTH HAZARDS:** MAY BE IRRITATING TO SKIN, EYES, GASTROINTESTINAL AND RESPIRATORY TRACTS. MAY CAUSE PERMANENT EYE DAMAGE. HARMFUL IF SWALLOWED.

**PHYSICAL HAZARDS:** May be corrosive to metals.

**AQUATIC TOXICITY:** Harmful to Aquatic Organisms.

**PRECAUTIONARY STATEMENTS:** Avoid breathing vapors or mist. Avoid contact with eyes, skin and clothing. Keep container tightly closed and properly labeled. Use only with adequate ventilation. Wash thoroughly after handling.

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## 2. HAZARDS IDENTIFICATION

### POTENTIAL HEALTH EFFECTS:

**Inhalation:** May cause mild irritation.

**Skin contact:** Moderately irritating to the skin.

**Eye contact:** May cause eye irritation, that if untreated, can be severe and permanent.

**Ingestion:** Ingestion may cause irritation and burns from the mouth to the stomach. Ingesting massive amounts may cause ulcerations, vomiting, and death from shock.

**Chronic Effects:** None known.

See Section 11: TOXICOLOGICAL INFORMATION

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Percentage	CAS Number
Potassium Carbonate	30 – 52	584-08-7
Water	48 – 70	7732-18-5

## 4. FIRST AID MEASURES

**INHALATION:** If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. If respiration or pulse has stopped, have a trained person administer Basic Life Support (Cardio-Pulmonary Resuscitation and/or Automatic External Defibrillator) and CALL FOR EMERGENCY SERVICES IMMEDIATELY.

**SKIN CONTACT:** Immediately flush contaminated areas with water. Remove contaminated clothing, jewelry, and shoes immediately. Contaminated clothing should be removed, then discarded or laundered. Discard footwear which cannot be decontaminated. IF IRRITATION OCCURS, GET MEDICAL ATTENTION.

**EYE CONTACT:** Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissues. Washing eyes within several seconds is essential to achieve maximum effectiveness. GET MEDICAL ATTENTION IMMEDIATELY.

**INGESTION:** If swallowed, do not induce vomiting. Rinse mouth out with water. Give water. Never give anything by mouth to an unconscious or convulsive person. If vomiting occurs spontaneously, keep airway clear. GET MEDICAL ATTENTION IMMEDIATELY.

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## 5. FIRE-FIGHTING MEASURES

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**Fire Hazard:** Negligible fire hazard.

**Extinguishing Media:** Use agents appropriate for surrounding fire.

**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.

**Sensitivity to Mechanical Impact:** Not sensitive.

**Sensitivity to Static Discharge:** Not sensitive.

**Flash point:** Not flammable.

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## 6. ACCIDENTAL RELEASE MEASURES

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### **Occupational Release:**

Wear appropriate personal protective equipment recommended in Section 8 of the SDS. Completely contain spilled material with dikes, sandbags, etc. Keep out of water supplies and sewers. Liquid material may be removed with a properly rated vacuum truck. Flush spill area with water, if appropriate. Releases should be reported, if required, to appropriate agencies.

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## 7. HANDLING AND STORAGE

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**Storage Conditions:** Store and handle in accordance with all current regulations and standards. Keep container tightly closed and properly labeled. Store in a cool, dry area. Keep separated from incompatible substances (see Section 10 of SDS). Store above freezing.

**Handling Procedures:** Avoid breathing mist. Wash thoroughly after handling. When using, do not eat, drink or smoke. Do not reuse containers.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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**Regulatory Exposure limit(s):** No occupational exposure limits have been established at this time.

**ENGINEERING CONTROLS:** Provide local exhaust ventilation where mist may be generated.

### **PERSONAL PROTECTIVE EQUIPMENT:**

**Eye Protection:** If eye contact is likely, wear chemical resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

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**Skin and Body Protection:** Wear chemical resistant clothing and rubber boots when potential for contact with the material exists. Contaminated clothing should be removed, then discarded or laundered. Discard footwear which cannot be decontaminated. Always place pants legs over boots.

**Hand Protection:** Wear appropriate chemical resistant gloves

**Protective Material Types:** Butyl rubber, Natural rubber, Neoprene, Nitrile, Tychem® SL

**Respiratory Protection:** A NIOSH approved respirator with a dust, mist, and fume filter may be permissible under certain circumstances where airborne concentrations are expected. Observe limitations specified by the respirator manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full-face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Liquid
<b>Appearance:</b>	Clear
<b>Color:</b>	Colorless
<b>Odor:</b>	Odorless
<b>Odor Threshold:</b>	Not applicable
<b>Molecular Formula:</b>	K <sub>2</sub> CO <sub>3</sub>
<b>Boiling Point/Range:</b>	221-241 F (105-116 C)
<b>Freezing Point/Range:</b>	-5 to 62 F (-21 to 17 C)
<b>Vapor Pressure:</b>	9.7 – 15.3 mm Hg @ 20.5 C
<b>Vapor Density (air=1):</b>	No data available
<b>Specific Gravity (water=1):</b>	1.30 - 1.57
<b>Water Solubility:</b>	100%
<b>pH:</b>	12.6 – 13.8
<b>Volatility:</b>	No data available
<b>Evaporation Rate (ether=1):</b>	No data available
<b>Partition Coefficient (n-octanol/water):</b>	Not applicable
<b>Flash point:</b>	Not flammable

## 10. STABILITY AND REACTIVITY

**Reactivity/ Stability:** Stable at normal temperatures and pressures.

**Conditions to Avoid:** Avoid contact with lime to prevent formation of corrosive potassium hydroxide (KOH).

**Incompatibilities/ Materials to Avoid:** Acids, Prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys

**Hazardous Decomposition Products:** Oxides of carbon, Potassium oxides

**Hazardous Polymerization:** Will not occur

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## 11. TOXICOLOGICAL INFORMATION

### TOXICITY DATA:

Component	LD50 Oral	LC50 Inhalation	LD50 Dermal
Potassium Carbonate	1870 mg/kg (Rat) 2570 mg/kg (Mouse)	-----	-----

**TOXICITY:** This material when applied to the skin of guinea pigs did not elicit any dermal sensitization reaction.

**CARCINOGENICITY:** This product is not classified as a carcinogen by NTP, IARC or OSHA.

## 12. ECOLOGICAL INFORMATION

### ECOTOXICITY DATA:

#### - Aquatic Toxicity:

Rainbow trout LC50 = 68 mg/L 96 hours

Bluegill sunfish LC50 = 230 mg/L 96 hours

#### - Invertebrate Toxicity:

Daphnia magna EC50 (hard water) = 430 mg/L 48 hours

Daphnia pulex EC50 (soft water) = 200 mg/L 48 hours

### FATE AND TRANSPORT:

**BIODEGRADATION:** This material is inorganic and not subject to biodegradation.

**PERSISTENCE:** This material is believed not to persist in the environment.

**BIOCONCENTRATION:** This material is not expected to bioconcentrate in organisms.

**ADDITIONAL ECOLOGICAL INFORMATION:** May increase pH of waterways and adversely affect aquatic life.

## 13. DISPOSAL CONSIDERATIONS

Reuse or reprocess, if possible. May be subject to disposal regulations: U.S. EPA 40 CFR 261. Hazardous Waste Number(s): D002. Dispose in accordance with all applicable regulations.

## 14. TRANSPORT INFORMATION

### U.S.DOT 49 CFR 172.101:

**PROPER SHIPPING NAME:** Corrosive liquids, n.o.s. (Potassium Carbonate)

**UN NUMBER:** UN1760

**HAZARD CLASS/ DIVISION:** 8

**PACKING GROUP:** II

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## 14. TRANSPORT INFORMATION

**LABELING REQUIREMENTS:** 8  
**DOT RQ (lbs):** N/A

### CANADIAN TRANSPORTATION OF DANGEROUS GOODS:

**SHIPPING NAME:** Corrosive liquids, n.o.s. (Potassium Carbonate)  
**UN NUMBER:** UN1760  
**CLASS OR DIVISION:** 8  
**PACKING/RISK GROUP:** II

## 15. REGULATORY INFORMATION

### U.S. REGULATIONS

- **OSHA REGULATORY STATUS:** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200) (US)
- **CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):** Not regulated.
- **EPCRA EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30):** Not regulated
- **EPCRA SECTIONS 311/312 HAZARD CATEGORIES (40 CFR 370.21):**  
Acute Health Hazard
- **EPCRA SECTION 313 (40 CFR 372.65):** Not regulated.
- **OSHA PROCESS SAFETY (PSM) (29 CFR 1910.119):** Not regulated

**FDA:** This material has Generally Recognized as Safe (GRAS) status under specific FDA regulations. Additional information is available from the Code of Federal Regulations which is accessible on the FDA's website.

### 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 are listed

### STATE REGULATIONS

Component	Potassium Carbonate
California Proposition 65 Cancer WARNING:	Not Listed
Massachusetts Right to Know Hazardous Substance List	Not Listed
New Jersey Right to Know Hazardous Substance List	Not Listed
New Jersey Special Health Hazards Substance List	Not Listed
New Jersey - Environmental Hazardous Substance List	Not Listed
Pennsylvania Right to Know Hazardous Substance List	Not Listed
Pennsylvania Right to Know Special Hazardous Substances	Not Listed
Pennsylvania Right to Know Environmental Hazard List	Not Listed

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Rhode Island Right to Know Hazardous Substance List	Not Listed
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## CANADIAN REGULATIONS

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

**WHMIS Classification:** E

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## 16. OTHER INFORMATION

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**HMIS: (SCALE 0-4)** (Rated using National Paint & Coatings Association HMIS: Rating Instructions, 2nd Edition)

<b>Health:</b> 3	<b>Flammability:</b> 0	<b>Reactivity:</b> 0
<b>NFPA 704 - Hazard Identification Ratings (SCALE 0-4)</b>		
<b>Health:</b> 2	<b>Flammability:</b> 0	<b>Reactivity:</b> 0

**Reason for Revision:** Update to Section(s) 2 and 14

### IMPORTANT:

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OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, material safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Material Safety Data Sheet available to your employees.

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