

SAFETY DATA SHEET



POTASSIUM CARBONATE (ANHYDROUS ALL GRADES)

MSDS No.: M1252

Rev. Date: 2010-June-15

Rev. Num. 01

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Identification: Armand Products Company
469 North Harrison Street
North Harrison Street, 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 Extra Fine; Potassium Carbonate Glass; Potassium Carbonate Dense Granular; Potassium Carbonate Fine

Synonyms: Pearlash, Potash, PotCarb

Product Use: Glass manufacture, Photographic, Detergents / soaps, Fertilizer *, Rubber products, Pharmaceuticals, Potassium Silicates, Food processing, Gas Treatment, Agricultural Chemicals, Cement, Catalysts

Notes: *In states where registered. Check with State Department of Agriculture

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Color: White
Physical State: Granular powder
Appearance: Free-flowing, Granular
Signal Word: **WARNING**

MAJOR HEALTH HAZARDS: HARMFUL IF SWALLOWED. CAUSES SERIOUS EYE IRRITATION. CAUSES SKIN IRRITATION.

AQUATIC TOXICITY: Harmful to aquatic life.

ECOLOGICAL HAZARDS: May increase pH of waterways and adversely effect aquatic life.

PRECAUTIONARY STATEMENTS: Wash skin and contaminated clothing thoroughly after handling. Wear protective gloves, protective clothing, eye, and face protection. Do not eat, drink or smoke when using this product. Avoid release to the environment.

POTENTIAL HEALTH EFFECTS:

Inhalation: Not acutely toxic by inhalation.

Skin contact: Substance may cause slight skin irritation.

Eye contact: May cause eye irritation, which 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: Repeated or prolonged contact may result in dermatitis.

See Section 11: TOXICOLOGICAL INFORMATION

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Percentage	CAS Number
Potassium Carbonate	98.5 - 100	584-08-7

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 brush off excess chemical and flush with plenty of soap and water. Remove contaminated clothing, jewelry, and shoes immediately. Remove contaminated clothing and gloves, and decontaminate or discard before reuse. Discard footwear which cannot be decontaminated. IF IRRITATION OCCURS, GET MEDICAL ATTENTION.

EYE CONTACT: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Washing eyes within several seconds is essential to achieve maximum effectiveness. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION: If swallowed, DO NOT INDUCE VOMITING. Rinse mouth. Give water. Never give anything by mouth to an unconscious or convulsive person. If vomiting occurs spontaneously, keep airway clear. GET MEDICAL ATTENTION IMMEDIATELY.

5. FIRE-FIGHTING MEASURES

Fire Hazard: Negligible fire hazard.

Extinguishing Media: Use extinguishing medium as 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

6. ACCIDENTAL RELEASE MEASURES

Occupational Release: Wear appropriate personal protective equipment recommended in Section 8 of the SDS. Shovel dry material into suitable container. Flush spill area with water, if appropriate. Keep out of water supplies and sewers. Releases should be reported, if required, to appropriate agencies.

7. HANDLING AND STORAGE

Storage Conditions: Store and handle in accordance with all current regulations and standards. Keep container tightly closed and properly labeled. Granular material is slightly hygroscopic; ground material is very hygroscopic. Store in a cool, dry area. Keep separated from incompatible substances (see Section 10 of the Safety Data Sheet).

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Regulatory Exposure limit(s): None

Recommended Exposure Limit: 2 mg/m³ recommended Time Weighted Average 8 hour (internal Occupational Exposure Limit) (Inhalable Particulate).

ENGINEERING CONTROLS: Provide local exhaust ventilation where dust or mist may be generated. Ensure compliance with applicable exposure limits.

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: Contaminated clothing should be removed, then discarded or laundered. Discard contaminated leather goods. Wear protective clothing to minimize skin contact. When potential for contact with wet material exists, wear Tychem® or similar chemical protective suit.

Hand Protection: Wear appropriate chemical resistant gloves.

Protective Material Types: Butyl rubber, Natural rubber, Neoprene, Nitrile

Respiratory Protection: A NIOSH approved respirator with high efficiency particulate air (HEPA) cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. When an air purifying respirator is not adequate for spills and/or emergencies of unknown concentrations, an approved self-contained breathing apparatus operated in the pressure demand mode is required. 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

Physical State:	Granular powder
Appearance:	Free-flowing, Granular
Color:	White
Molecular Weight:	138.21
Molecular Formula:	K ₂ CO ₃
Melting Point/Range:	1636 °F (891 °C)
Specific Gravity (water=1):	2.428 @ 19 (°C)
Density:	1201 - 1330 g/L (granular); 560 - 625 g/L (ground) @ 20 °C
Bulk Density:	75-83 lb/ft ³ (granular; 35-39 bl/ft ³ (ground) @ 20 °C
Water Solubility:	100%
pH:	moderately basic in solution
Volatility:	Not applicable
Evaporation Rate (ether=1):	Not applicable
Partition Coefficient (n-octanol/water):	Not applicable

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: Carbon oxides, Potassium oxides

Hazardous Polymerization: Will not occur

11. TOXICOLOGICAL INFORMATION

LD50 Oral: 1,870 mg/kg (rat); 2570 mg/kg (mouse)

LC50 Inhalation: > 4.96 mg/l (rat/4.5 hour)

LD50 Dermal: > 2,000 mg/kg

ACUTE TOXICITY:

May cause eye irritation, that if untreated can be severe and permanent. May cause slight skin and respiratory irritation. This material when applied to the skin of guinea pigs did not elicit any dermal sensitization reaction. Ingestion may cause irritation and burns from the mouth to the stomach. Ingesting massive amounts may cause ulcerations, vomiting, and death from shock.

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

MUTAGENIC DATA: Tested negative in test systems evaluated.

REPRODUCTIVE TOXICITY: No studies were located.

DEVELOPMENTAL TOXICITY: No discernable effects on maternal or fetal survival were observed in animal studies.

12. ECOLOGICAL INFORMATION

ECOTOXICITY DATA:

- **Freshwater Fish Toxicity:**
 - LC50 Bluegill sunfish 230 mg/l/96 hr
 - LC50 Rainbow trout 68 mg/l/96 hr
 - LC50 Pimephales promelas (fathead minnow) 940 mg/l/24 hr
 - LC50 Pimephales promelas (fathead minnow) 820 mg/l/48 hr
 - LC50 Pimephales promelas (fathead minnow) <510 mg/l/96 hr

- **Invertebrate Toxicity:**
 - EC50 Daphnia magna 430 mg/l/48 hr (hard water)
 - EC50 Daphnia pulex 200 mg/l/48 hr (soft water)

- **Other Toxicity:**
 - LC50 Ceriodaphnia dubia (water flea) 630 mg/l/24 hr
 - LC50 Ceriodaphnia dubia (water flea) 630 mg/l/48 hr
 - LC50 Daphnia magna (water flea) 670 mg/l/24 hr
 - LC50 Daphnia magna (water flea) 650 mg/l/48 hr

FATE AND TRANSPORT:

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

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

Bioaccumulative Potential: This material is believed not to bioaccumulate.

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

13. DISPOSAL CONSIDERATIONS

Waste from material:

Reuse or reprocess, if possible. Measure the pH of solutions to determine disposal restrictions. Dispose in accordance with all applicable regulations.

14. TRANSPORT INFORMATION

U.S. DOT 49 CFR 172.101: Not regulated

CANADIAN TRANSPORTATION OF DANGEROUS GOODS: Not regulated

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.
- **DEPARTMENT OF HOMELAND SECURITY (DHS)- Chemical Facility Anti-Terrorism Standards (6 CFR 27):**
No components in this material are regulated under DHS
- **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 of this product are listed on either the DSL or the NDSL

STATE REGULATIONS

Component	Potassium Carbonate
California Proposition 65 Cancer WARNING:	Not Listed

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Component	Potassium Carbonate
California Proposition 65 CRT List - Male reproductive toxin:	Not Listed
California Proposition 65 CRT List - Female reproductive toxin:	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
Rhode Island Right to Know Hazardous Substance List	Not Listed

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

Component	Potassium Carbonate
WHMIS Classification:	D2B

16. OTHER INFORMATION

Prepared by: OxyChem Corporate HESS - Health Risk Management

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

Health: 3

Flammability: 0

Reactivity: 0

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.