

POTASSIUM CARBONATE (ANHYDROUS ALL GRADES)
M1252_NA_US

REVISION DATE: Oct 05 2007



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY INFORMATION

Armand Products Company

469 North Harrison Street

Princeton, New Jersey 08543-5297

24 HOUR EMERGENCY TELEPHONE:

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

MSDS NUMBER: M1252

SUBSTANCE: POTASSIUM CARBONATE (ANHYDROUS ALL GRADES)

TRADE NAMES:

Potassium Carbonate Extra Fine; Potassium Carbonate Glass; Potassium Carbonate Dense Granular;
Potassium Carbonate Fine

SYNONYMS:

Potash; PotCarb; Pearlash

PRODUCT USE: glass manufacture, cleaner, process chemical

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2. HAZARDS IDENTIFICATION

OSHA REGULATORY STATUS: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS CLASSIFICATION:

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Acute toxicity, Category 4

GHS SYMBOL:



GHS SIGNAL WORD: WARNING

GHS HAZARD STATEMENT:

Harmful if swallowed

EMERGENCY OVERVIEW:

COLOR: white

PHYSICAL FORM: powder

ODOR: odorless

SIGNAL WORD: DANGER

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

PRECAUTIONARY STATEMENTS: Avoid breathing dust. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Use only with adequate ventilation. Wash thoroughly after handling.

POTENTIAL HEALTH EFFECTS:

INHALATION:

May cause slight respiratory irritation.

SKIN CONTACT:

May cause slight skin irritation.

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:

Repeated or prolonged contact may result in dermatitis.

CARCINOGEN STATUS:

OSHA: No

NTP: No

IARC: No

See Section 11: TOXICOLOGICAL INFORMATION

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3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT: POTASSIUM CARBONATE
CAS NUMBER: 584-08-7
PERCENTAGE: 95-100

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/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.

5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS: Negligible fire hazard.

EXTINGUISHING MEDIA: Use extinguishing 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

OCCUPATIONAL RELEASE:

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

7. HANDLING AND STORAGE

STORAGE: 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 place. Keep separated from incompatible substances (see Section 10 of the MSDS).

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:

POTASSIUM CARBONATE (ANHYDROUS ALL GRADES):

2 mg dust/m³ (total) recommended TWA 8 hour(s) (Internal Occupational Exposure Limit)

BIOLOGICAL LIMIT VALUES:

POTASSIUM CARBONATE (ANHYDROUS ALL GRADES):

No biological limit value(s) available.

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

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.

CLOTHING: Wear protective clothing to minimize skin contact. When potential for contact with wet material exists, wear Tychem® SL or a similar chemical protective suit. Contaminated clothing should be removed, then discarded or laundered. Discard footwear which cannot be decontaminated.

GLOVES: Wear suitable gloves. When wet mixing, wear chemical resistant gloves such as butyl rubber, natural rubber, neoprene or nitrile.

PROTECTIVE MATERIAL TYPES: butyl rubber, natural rubber, neoprene, nitrile, Tyvek®

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RESPIRATOR: A NIOSH approved respirator with N100 (HEPA) filters may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Observe limitations specified by NIOSH or 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 the use of a respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: solid

COLOR: white

TEXTURE: free-flowing, granular

PHYSICAL FORM: powder

ODOR: odorless

MOLECULAR WEIGHT: 138.21

MOLECULAR FORMULA: K₂CO₃

BOILING POINT: Not applicable

MELTING POINT: 1636 F (891 C)

FLASH POINT: not flammable

VAPOR PRESSURE: Not applicable

VAPOR DENSITY: Not applicable

SPECIFIC GRAVITY (water=1): 2.428 @ 19 C

BULK DENSITY: 75-83 lb/ft³ (granular); 35-39 lb/ft³ (ground) @ 20 C

WATER SOLUBILITY: 100%

PH: moderately basic in solution

VOLATILITY: Not applicable

ODOR THRESHOLD: Not applicable

EVAPORATION RATE: Not applicable

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not applicable

10. STABILITY AND REACTIVITY

REACTIVITY: Stable at normal temperatures and pressure.

CONDITIONS TO AVOID: Avoid contact with lime to prevent formation of corrosive potassium hydroxide (KOH).

INCOMPATIBILITIES: acids, prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys

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HAZARDOUS DECOMPOSITION:

Thermal decomposition products: oxides of carbon, oxides of potassium

POLYMERIZATION: Will not polymerize.

11. TOXICOLOGICAL INFORMATION

POTASSIUM CARBONATE (ANHYDROUS ALL GRADES):

TOXICITY DATA: 1870 mg/kg oral-rat LD50; 2570 mg/kg oral-mouse LD50

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

ACUTE TOXICITY LEVEL:

Moderately Toxic: ingestion

12. ECOLOGICAL INFORMATION

ECOTOXICITY DATA:

FISH TOXICITY: 68 mg/L 96 hour(s) Rainbow trout LC50; 230 mg/L 96 hour(s) Bluegill sunfish LC50

INVERTEBRATE TOXICITY: 430 mg/L 48 hour(s) Daphnia magna EC50 (hard water). 200 mg/L 48 hour(s) Daphnia pulex EC50 (soft water).

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 believed not to bioaccumulate.

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

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

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U.S. DEPARTMENT OF TRANSPORTATION: Not regulated.

CANADIAN TRANSPORTATION OF DANGEROUS GOODS: Not regulated.

15. REGULATORY INFORMATION

U.S. REGULATIONS:

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4): Not regulated.

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30): Not regulated.

SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21):

ACUTE: Yes

CHRONIC: No

FIRE: No

REACTIVE: No

SUDDEN RELEASE: No

SARA TITLE III SECTION 313 (40 CFR 372.65): Not regulated.

OSHA PROCESS SAFETY (29CFR1910.119): 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 (CFR) which is accessible on the FDA's website.

STATE REGULATIONS:

California Proposition 65: Not regulated.

NEW JERSEY WORKER AND COMMUNITY RIGHT TO KNOW:

REPORTING REQUIREMENT:

POTASSIUM CARBONATE 584-08-7 95-100%

RIGHT TO KNOW HAZARDOUS SUBSTANCE LIST:

Not regulated.

SPECIAL HEALTH HAZARD SUBSTANCE LIST:

Not regulated.

PENNSYLVANIA RIGHT TO KNOW:

REPORTING REQUIREMENT:

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HAZARDOUS SUBSTANCE LIST:

Not regulated.

ENVIRONMENTAL HAZARDOUS SUBSTANCE LIST:

Not regulated.

SPECIAL HAZARDOUS SUBSTANCE LIST:

Not regulated.

CANADIAN REGULATIONS:

WHMIS CLASSIFICATION: D2B, E.

NATIONAL INVENTORY STATUS:

U.S. INVENTORY (TSCA): All the components of this substance are listed on or are exempt from the inventory.

TSCA 12(b) EXPORT NOTIFICATION: Not listed.

CANADA INVENTORY (DSL/NDSL): All components of this product are listed on the DSL.

16. OTHER INFORMATION

NFPA RATINGS (SCALE 0-4): HEALTH=2 FIRE=0 REACTIVITY=0

HMIS RATINGS (SCALE 0-4): HEALTH=3 FLAMMABILITY=0 REACTIVITY=0

This information is intended solely for the use of individuals trained in the NFPA and/or HMIS systems.
Rated using 2nd Edition HMIS Instructions.

MSDS SUMMARY OF CHANGES

- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 4. FIRST AID MEASURES
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 11. TOXICOLOGICAL INFORMATION
- 15. REGULATORY INFORMATION

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.

IMPORTANT: The information presented herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge. NO WARRANTY OF

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