



# SAFETY DATA SHEET

Name of Product:

**POTASSIUM CARBONATE, Anhydrous**

Product #: See Section 1  
Revision Date: August 18, 2015

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Potassium Carbonate, anhydrous  
SYNONYMS: Pearl ash, Potash-hydrated, Potassium Carbonate, Pot Carb, PC, salt of tartar  
PRODUCT CODES: I000139, I000145, I000146

MANUFACTURER: NACHURS ALPINE SOLUTIONS  
DIVISION: Marion  
ADDRESS: 421 Leader Street, Marion, OH43302, United States

PHONE: 800-622-4877 (USA)  
800-265-2268 (CANADA)

EMERGENCY PHONE: United States: Chemtrec: 800-424-9300 (CCN# 15189)  
Canada: CANUTEC: 1-613-996-666  
I TECH 877-324-4402

CHEMICAL NAME: Potassium Carbonate, Anhydrous  
CHEMICAL FAMILY: Alkali  
CHEMICAL FORMULA:  $K_2CO_3$

PRODUCT USE: agriculture, glass manufacture, production of other potassium salts.

PREPARED BY: NACHURS ALPINE SOLUTIONS

## SECTION 2: HAZARDS IDENTIFICATION – EMERGENCY OVERVIEW

### GHS ELEMENTS:

Hazard Classification: Acute Toxicity Oral (Category 4).  
Acute Toxicity Inhalation (Category 4).  
Skin Irritation (Category 2).  
Eye Irritation (Category 2A).  
Target Organ Toxicity – Single Exposure - Inhalation (Category 3).  
Corrosive to Metals (Category 1).

Pictogram:



Signal Word: Warning

Hazard Statements: Harmful if swallowed or inhaled.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.

Precautionary Statements: Wash skin thoroughly after handling. Wear protective gloves, clothing, eye and face protection.  
Avoid breathing dusts. Use only outdoors or in a well ventilated area.  
Do not eat, drink or smoke when using this product.  
If swallowed, rinse mouth. Call a poison center or physician if you feel unwell.  
If on skin, wash thoroughly with soap and water.  
If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Call for medical attention if you feel unwell.  
If in eyes, rinse cautiously for several minutes. Remove contact lenses if present and able to do so. Continue rinsing. Get medical attention if eye irritation persists.  
If skin irritation occurs, get medical attention.  
Remove contaminated clothing and wash prior to reuse.  
Store in a secured, well ventilated place. Keep container tightly closed.  
Dispose of contents and container to an approved waste disposal plant.

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## POTENTIAL HEALTH EFFECTS

EYES: May cause serious irritation.  
SKIN: May cause irritation.  
INGESTION: May cause irritation.  
INHALATION: May cause irritation.

ACUTE HEALTH HAZARDS: Can cause irritation to exposed skin upon contact

CHRONIC HEALTH HAZARDS: Repeated or prolonged contact may cause dermatitis

## CARCINOGENICITY:

OSHA: N/A  
ACGIH: N/A  
NTP: N/A  
IARC: N/A  
OTHER: N/A

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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INGREDIENT: Potassium Carbonate, Corrosive, 98% min.

CAS NO.: 584-08-7

ELIN / EINECS: 209-529-3

OSHA PEL-TWA: N/A

OSHA PEL STEL: N/A

OSHA PEL CEILING: N/A

ACGIH TLV-TWA: N/A

ACGIH TLV STEL: N/A

ACGIH TLV CEILING: N/A

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## SECTION 4: FIRST AID MEASURES

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EYES: Flush with water immediately and thoroughly for 15 minutes. If irritation persists, seek medical attention.

SKIN: Causes mild irritation. Flush with water immediately and thoroughly for 15 minutes. If irritation persists, seek medical attention.

INGESTION: Causes irritation to the digestive and respiratory tract. Drink plenty of water. **Do not induce vomiting.** Seek medical attention.

INHALATION: If inhalation exposure is suspected, seek medical attention.

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## SECTION 5: FIRE-FIGHTING MEASURES

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FLAMMABILITY: No data available.

FLAMMABLE LIMITS IN AIR: Negligible fire hazard

FLASH POINT: N/A

METHOD USED: N/A

AUTOIGNITION TEMPERATURE: N/A

NFPA HAZARD CLASSIFICATION:

**HEALTH:** 3

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**FLAMMABILITY:** 0  
**REACTIVITY:** 0  
OTHER: 0

## HMIS HAZARD CLASSIFICATION

**HEALTH:** 3  
**FLAMMABILITY:** 0  
**REACTIVITY:** 0  
PROTECTION: B

**EXTINGUISHING MEDIA:** Use extinguishing media suitable for surrounding material.

**SPECIAL FIRE FIGHTING PROCEDURES:** If carbon dioxide is released, use an approved self-contained breathing apparatus.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** High temperatures due to fire or mixing with acid can cause this material to decompose releasing carbon dioxide gas.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon dioxide is generated when reacted with acids. Large quantities of carbon dioxide in an enclosed area will result in lack of oxygen and possible suffocation.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**ACCIDENTAL RELEASE MEASURES:** Use appropriate personal protective equipment as discussed in Section 8. Avoid production of dust and consider potential for combustible dust formation.

Avoid inhalation of dust or contact to eyes or skin.

Confine the spill to a diked area or sump, if possible, and recover as much of the potassium carbonate as possible. Place in suitable containers.

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## SECTION 7: HANDLING AND STORAGE

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**HANDLING AND STORAGE:** Store in suitable containers made of HDPE, mild steel, stainless steel or fiberglass.

**OTHER PRECAUTIONS:** Granular material is hygroscopic and powdered material is very hygroscopic. Store in a cool, dry area. Can be corrosive to aluminum, brass, bronze, copper, tin and zinc or other alkali-sensitive metals or alloys. Always use good safety and industrial hygienic practices.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

**VENTILATION:** Provide adequate ventilation for local areas.

**RESPIRATORY PROTECTION:** Respiratory protection is not normally required unless excessive heat or reaction occur resulting in release of carbon dioxide. In enclosed spaces, this can displace oxygen causing possible suffocation, thus use self-contained breathing apparatus. Do not use air purifying respirators.

**EYE PROTECTION:** Safety goggles and face shield.

**SKIN PROTECTION:** Rubber or plastic gloves may include butyl rubber, natural rubber, neoprene or nitrile.

**OTHER PROTECTIVE CLOTHING/EQUIPMENT:** N/A

**WORK HYGIENIC PRACTICES:** Good safety and industrial hygienic practices should always be followed.

**EXPOSURE GUIDELINES:** N/A

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE:	White to nearly white
ODOR:	No odor
ODOR THRESHOLD:	No data available.
PHYSICAL STATE:	Granular free-flowing
pH, 10% solution	>12
MELTING POINT:	F°: 1636; C°: 891
FREEZING POINT:	F°: 1636 C°: 891
BOILING POINT:	N/A
FLASH POINT:	F°: N/A C°: N/A
METHOD USED:	N/A
EVAPORATION RATE:	N/A
FLAMABILITY:	No data available
FLAMMABLE LIMITS IN AIR: (% BY VOLUME)	UPPER: N/A LOWER: N/A
VAPOR PRESSURE:	N/A
VAPOR DENSITY:	N/A
SPECIFIC GRAVITY (H <sub>2</sub> O = 1)	1.19-1.54
BULK DENSITY:	Dependent upon particle size distribution
SOLUBILITY IN WATER:	Complete
PARTITION COEFFICIENT:	n-octanol/water – N/A
PERCENT SOLIDS BY WEIGHT:	N/A
PERCENT VOLATILE:	N/A
VOLATILE ORGANIC COMPOUNDS (VOC):	N/A
AUTOIGNITION TEMPERATURE:	N/A
THERMON DECOMPOSITIONS:	N/A
VISCOSITY:	N/A
MOLECULAR WEIGHT:	138.2

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## SECTION 10: STABILITY AND REACTIVITY

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STABILITY: Stable at normal temperatures and pressures.

CONDITIONS TO AVOID (STABILITY): Extreme heat or contact with acids.

INCOMPATIBILITY (MATERIAL TO AVOID): Acids and excessive heat.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon dioxide.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID (POLYMERIZATION): N/A

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## SECTION 11: TOXICOLOGICAL INFORMATION

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TOXICOLOGICAL INFORMATION: LD<sub>50</sub>: 1870 mg/kg rat; 2570 mg/kg mouse

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## SECTION 12: ECOLOGICAL INFORMATION

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LC<sub>50</sub>: Bluegill: 230 mg/L/96 hr  
Pimephales promelas: 940 mg/L/24 hr; 820 mg/L/48 hr; <510 mg/L/96 hr  
Rainbow trout: 68 mg/L/96hr  
Ceriodaphnia dubia: 630 mg/L/24 hr; 630 mg/L/48 hr  
Daphnia magna: 670 mg/L/24 hr; 650 mg/L/48 hr

This material is not considered to be bio-accumulative or environmentally persistent. May increase the pH of waterways and adversely affect aquatic life.

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## SECTION 13: DISPOSAL CONSIDERATIONS

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WASTE DISPOSAL METHOD: Reclaim and reuse as much as possible. Dispose in accordance with all federal, state, and local regulations.

RCRA HAZARD CLASS: N/A

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## SECTION 14: TRANSPORT INFORMATION

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U.S. DEPARTMENT OF TRANSPORTATION: Not regulated under 49 CFR 172.101

Canadian TDG: not regulated

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## SECTION 15: REGULATORY INFORMATION

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U.S. FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCE CONTROL ACT): Yes

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): Not regulated

EPCRA 311/312 HAZARD CATEGORIES: Acute health hazard

EPCRA 313 REPORTABLE INGREDIENTS: Not regulated

OSHA: considered hazardous as per 29 CFR 1910.1200

OSHA Process Safety Management (PSM): Not regulated

STATE REGULATIONS: not listed on California proposition 65.

INTERNATIONAL REGULATIONS:

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CANADIAN DSL/NDL: Yes

European EINECS: Yes

SECTION 15 NOTES:

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## SECTION 16: OTHER INFORMATION

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**PREPARATION INFORMATION:**            *Technical Services*

**DISCLAIMER:**            The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and NACHURS ALPINE SOLUTIONS will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein.

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