



# SAFETY DATA SHEET

Name of Product:

**POTASSIUM CARBONATE 20-50%**

Product #: See Section 1

Revision Date: July 14, 2015

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Potassium Carbonate, 20-50%  
SYNONYMS: Pearl ash, Potash-hydrated, Potassium Carbonate in solution.  
PRODUCT CODES: I000021, I000022, I000023, I000025, I000036, I000038, I000069, I000089, I000099, I000101, I000116, I000135.

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, Liquid  
CHEMICAL FAMILY: Alkali  
CHEMICAL FORMULA: K<sub>2</sub>CO<sub>3</sub>


PRODUCT USE: Drilling Fluid, Photochemistry, Cleaners, Soaps, Glass, Electric Circuit Boards, Fertilizer Solutions

PREPARED BY: NACHURS ALPINE SOLUTIONS

## SECTION 2: HAZARDS IDENTIFICATION

GHS ELEMENTS:

Hazard Classification: Acute Toxicity Oral (Category 4).  
Acute Toxicity Inhalation (Category 4).  
Skin Corrosion (Category 1B).  
Serious Eye Damage (Category 1).  
Target Organ Toxicity – Single Exposure - Inhalation (Category 3).  
Corrosive to Metals (Category 1).  
Acute Hazard to the Aquatic Environment (Category 3).  
Chronic Hazard to the Aquatic Environment (Category 3).

Pictogram: 

Signal Word: Danger

Hazard Statements: Harmful if swallowed or inhaled.  
Causes severe skin burns and serious eye damage.  
May cause respiratory irritation.  
May be corrosive to metals.  
Harmful to aquatic life.  
Harmful to aquatic life with long lasting effects.

Precautionary Statements: Wash skin thoroughly after handling. Wear protective gloves, clothing, eye and face protection.  
Avoid breathing dusts, mists or sprays. Use only outdoors or in a well ventilated area.  
Do not eat, drink or smoke when using this product.  
If swallowed, rinse mouth. Do NOT induce vomiting.  
If on hair or skin, immediately remove all contaminated clothing and rinse skin with water or shower.  
If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
If in eyes, rinse carefully with water for several minutes. Remove contact lenses, if able and continue rinsing.  
Immediately call a poison center or doctor/physician. See First Aid instruction for specific treatment.

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Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.  
Store in a secured, well ventilated location. Store in the original container or in a corrosive resistant or container with resistant inner liner. Keep containers tightly closed.  
Dispose of contents or containers in accordance with all local, state and federal laws.

## POTENTIAL HEALTH EFFECTS

EYES: May cause serious eye damage, irritation, redness, burning of the eye, lids and conjunctiva. Treat immediately.  
SKIN: May cause redness, irritation, burning, swelling, blister formation or first, second or third degree burns. Treat immediately.  
INGESTION: May cause to the digestive and respiratory tract. Drink plenty of water.  
INHALATION: May cause irritation, cough or redness to upper respiratory.

ACUTE HEALTH HAZARDS: Skin corrosion and serious eye damage possible. Moderate irritation from inhalation or ingestion.

CHRONIC HEALTH HAZARDS: N/A

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: May aggravate preexisting conditions of the eye or skin.

## CARCINOGENICITY:

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

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT: Potassium Carbonate, Corrosive

CAS NO.: 584-08-7

% WT: 20-50

SARA 313 REPORTABLE: N/A

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

SECTION 3 NOTES: Balance ingredient is non-hazardous Water CAS NO.: 7732-18-5

## SECTION 4: FIRST AID MEASURES

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

SKIN: May cause severe burns. 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. Seek medical attention.

INHALATION: Avoid inhalation of mists or spray. Avoid dried product dusts. Remove to fresh air. Seek medical attention if symptoms persists.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Avoid contact with eyes and skin. Do not breathe in dusts. Do not ingest.

## SECTION 5: FIRE-FIGHTING MEASURES

FLAMABILITY: Not flammable.

FLAMMABLE LIMITS IN AIR: UPPER: N/A

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(% BY VOLUME) LOWER: N/A

FLASH POINT:

F°: N/A  
C°: N/A

METHOD USED: N/A

AUTOIGNITION TEMPERATURE:

F°: N/A  
C°: N/A

NFPA HAZARD CLASSIFICATION:

HEALTH: 3  
FLAMMABILITY: 0  
REACTIVITY: 0  
OTHER: 0

HMIS HAZARD CLASSIFICATION

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

EXTINGUISHING MEDIA: Water or 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 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: Avoid breathing in dusts, mists or sprays. Do not contact with eyes or skin. Wash thoroughly after handling. Wear appropriate personal protective equipment as recommended in Section 8.

Confine the spill to a diked area or sump, if possible, and recover as much of the liquid potassium carbonate as possible. Place in suitable containers. Flush area with water, as appropriate. Keep out of water supply and sewers. Report as required.

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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. Incompatible with acids, lime, prolonged contact with aluminum, brass, copper, lead, zinc, tin or other alkali sensitive metals or alloys. Corrosive to metals.

OTHER PRECAUTIONS: Always use good safety and industrial hygienic practices.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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ENGINEERING CONTROLS: N/A

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.

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EYE PROTECTION: Safety goggles and face shield.

SKIN PROTECTION: Rubber or plastic gloves.

OTHER PROTECTIVE CLOTHING OR 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: Clear, nearly colorless liquid.

ODOR: No odor/slight ammonia odor.

ODOR THRESHOLD: No data available.

PHYSICAL STATE: Liquid

pH AS SUPPLIED: >12

MELTING POINT: N/A

FREEZING POINT:  
F°: 5  
C°: -15

BOILING POINT:  
F°: >200  
C°: >93.3

FLASH POINT:  
F°: N/A  
C°: N/A

METHOD USED: N/A

EVAPORATION RATE: N/A

FLAMABILITY: Not flammable.

FLAMMABLE LIMITS IN AIR:  
(% BY VOLUME) UPPER: N/A  
LOWER: N/A

VAPOR PRESSURE (mmHg): N/A

VAPOR DENSITY (AIR = 1): N/A

SPECIFIC GRAVITY (H<sub>2</sub>O = 1) 1.19-1.54

DENSITY, LBS/GAL: 9.9-12.83

SOLUBILITY IN WATER: Complete

PARTITION COEFFICIENT: n-octanol/water – N/A

PERCENT SOLIDS BY WEIGHT: N/A

PERCENT VOLATILE: N/A

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VOLATILE ORGANIC COMPOUNDS (VOC): None

AUTOIGNITION TEMPERATURE: N/A

THERMON DECOMPOSITIONS: N/A

VISCOSITY: N/A

MOLECULAR WEIGHT: 138.2

## SECTION 10: STABILITY AND REACTIVITY

	STABLE	UNSTABLE
STABILITY:	x	
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	

## SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: LD50 Oral (Rat) – 1870 mg/kg  
LD50 Dermal (Rabbit) - >2000 mg/kg  
LD50 Inhalation (Rat, 4.5 h) - >4.96 mg/L

## SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Do not allow into drinking water. Harmful to aquatic life and causes long lasting effects.

Aquatic Toxicity: Rainbow Trout LC50 – 68 mg/L, 96 h  
Bluegill Sunfish LC50 – 230 mg/L, 96 h  
Flathead minnow LC50 – 940 mg/L, 24h; 820 mg/L, 48h; <510 mg/L, 96h

Invertebrate Toxicity: EC50 Daphnia magna – 430 mg/L, 48 h (hard water)  
EC50 Daphnia pulex – 200 mg/L, 48 h (soft water)

SECTION 12 NOTES: This material is not considered to be bio-accumulative or environmentally persistent. May increase the pH of waterways and adversely affect aquatic life.

## SECTION 13: DISPOSAL CONSIDERATIONS

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

RCRA HAZARD CLASS: D002 Corrosive

SECTION 13 NOTES: Measure pH to fully determine disposal measures.

## SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION:

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PROPER SHIPPING NAME: Corrosive Liquids, n.o.s. (Potassium Carbonate, Liquid)  
HAZARD CLASS: 8  
ID NUMBER: UN1760  
PACKING GROUP: II  
LABEL STATEMENT: Corrosive  
Health: 3 Flammability: 0 Reactivity: 0 Specific: None

WATER TRANSPORTATION (IMO):  
PROPER SHIPPING NAME: Corrosive Liquids, n.o.s. (Potassium Carbonate, Liquid)  
HAZARD CLASS: 8  
ID NUMBER: UN1760  
PACKING GROUP: II  
LABEL STATEMENT: Corrosive  
Health: 3 Flammability: 0 Reactivity: 0 Specific: None

AIR TRANSPORTATION (IATA):  
PROPER SHIPPING NAME: Corrosive Liquids, n.o.s. (Potassium Carbonate, Liquid)  
HAZARD CLASS: 8  
ID NUMBER: UN1760  
PACKING GROUP: II  
LABEL STATEMENT: Corrosive  
Health: 3 Flammability: 0 Reactivity: 0 Specific: None

OTHER AGENCIES:

## SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:  
TSCA (TOXIC SUBSTANCE CONTROL ACT): Yes  
CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): No  
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): N/A  
311/312 HAZARD CATEGORIES: N/A  
313 REPORTABLE INGREDIENTS:  
STATE REGULATIONS:  
INTERNATIONAL REGULATIONS:

## SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

### **PREPARATION INFORMATION:** *Technical Services*

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