



Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Chemical Product Name	Potassium Chloride
Chemical Family	Alkali Metal/Halide
Chemical Name	Potassium Chloride
Formula	KCl
Molecular Weight	74.6
Commercial Name	Diamond Crystal [®] Potassium Chloride Pellets

Manufacturer
Cargill Incorporated - Salt Division
P. O. Box 5621
Minneapolis, MN 55440

Emergency Telephone Numbers
CHEMTREC (800) 424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Description
Compressed white pellets

Ingredient Name	Exposure Limits	Concentration (%)
CAS Number Potassium Chloride 7447-40-7		100

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

None

Potential Health Effects

Route(s) Of Entry: Inhalation, Skin, Ingestion.

Human Effects and Symptoms of Overexposure: Kidney disorders may be aggravated by this product. No chronic effects found.

Acute Inhalation: May cause minor irritation of nose and throat.

Chronic Inhalation: Not Listed

Acute Skin Contact: May cause skin irritation.

Chronic Skin Contact: Not Listed

Acute Eye Contact: Irritation.

Chronic Eye Contact: Not Listed

Acute Ingestion: May cause gastrointestinal upset.

Chronic Ingestion: Not Listed

Carcinogenicity

NTP: Not listed as a carcinogen or mutagen.

IARC: Not listed as a carcinogen or mutagen.

OSHA: Not listed as a carcinogen or mutagen.

Medical Conditions Aggravated by Exposure: None Reported

4. FIRST AID MEASURES

First Aid For Eyes: For eye contact flush with water immediately for at least 15 minutes, and obtain medical attention.

First Aid For Skin: Flush with water. Obtain medical attention if rash develops.

First Aid For Inhalation: If person breathes large amounts remove to fresh air at once.

First Aid For Ingestion: Obtain medical attention; ingestion of large amounts usually causes purging of stomach by vomiting.

5. FIRE AND MEASURES

Flash Point: None

Extinguishing Media: Not flammable.

Special Fire Fighting Procedures: Not flammable.

6. ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: Shovel and sweep up into a container. Reclaim for salvage value or wash to an industrial sewer as permitted by federal, state, and local regulations.

7. HANDLING AND STORAGE

Storage Temperature (min./max.): Not Listed

Special Sensitivity: Contact with incompatible materials. Avoid: Brominetrifluoride, potassium permanganate, sulfuric acid, nitric acid.

Handling and Storage Precautions: Avoid damp and humid storage facilities, as material is hygroscopic.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection Requirements: Safety glasses with side shields.

Skin Protection Requirements: Normal work gloves are adequate.

Respiratory/Ventilation Requirements: None required where adequate ventilation exists. If airborne concentration is high, use an appropriate respirator or dust mask.

Exposure Limits: Not Listed

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: White solid.

Color: White

Odor: None

Boiling Point (760mm Hg) (°C): 1412

Melt Point/Freeze Point (°C): NA

PH:

Solubility In Water (g/cc, %): 26%

Specific Gravity (H₂O=1): 1.98-2.0

Bulk Density:

% Volatile By Weight:

Vapor Pressure (mm Hg/60°C): NA

Vapor Density (Air=1): NA

10. REACTIVITY

Stability: Stable

Incompatibilities: Brominetrifluoride, potassium permanganate, sulfuric acid, nitric acid.

Decomposition Products: None

11. TOXICOLOGICAL INFORMATION

Description: Not Listed. **CAUTION:** This product is to be used only as a water softener regenerant. Individuals under treatment for renal or cardiac disease, high blood pressure or diabetes, should consult their physician prior to consuming water softened with this product. In case of accidental ingestion of the product, seek medical attention immediately. Keep the product out of reach of children. If you are on a potassium restricted diet or your physician has indicated that you should not drink the potassium softened water, an under the counter reverse osmosis system can be installed by your local water conditioning dealer to remove the potassium along with other ions from your kitchen drinking water tap.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not Listed

Environmental Degradation: Not Listed

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose in accordance with all applicable federal, state, and local environmental regulations.

14. TRANSPORTATION INFORMATION

D.O.T. Shipping Name: Not Listed

Technical Shipping Name: Not Listed

D.O.T Hazard Class: Not Listed

U.N./N.A. Number: Not Listed

Product Rq (lbs.): Not Listed

D.O.T. Label: Not Listed

D.O.T. Placard: Not Listed

Freight Class Bulk: Not Listed

Freight Class Package: Not Listed

Product Label: N/A

15. REGULATORY INFORMATION

OSHA Status: Not Listed

TSCA Status: Not Listed

Cercla reportable Quantity

SARA Title III

Section 302 Extremely

Hazardous Substances: Not Listed

Section 311/312

Hazard categories: Not Listed

Section 313

Toxic Chemicals: Not Listed

RCRA Status: Not Listed

State Regulatory Information

Component Name

/CAS Number

Concentration

State-Code

16. OTHER INFORMATION

Reason For Issue: Regulatory Communication

Prepared By: Steve Karl

Approved By: Dave Merriweather

Title: Director-Quality Administration

Approval Date: February 2005

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MSDS Number: NP3

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