



# Potassium Chloride Pellets

## Safety Data Sheet

According To Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules And Regulations And According To The Hazardous Products Regulation (December 15, 2022).

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Supersedes Date: 01/11/2019

Version: 2.0

### SECTION 1: IDENTIFICATION

#### 1.1. Product Identifier

**Product Form:** Substance

**Product Name:** Potassium Chloride Pellets

**Product Code:** F114980000

**Synonyms:** Water Softening Pellets

#### 1.2 Recommended Use and Restrictions on Use

**Use Of The Substance/Mixture** : Water Softener Ion Exchange Resin Regeneration.

**Restrictions On Use** : No additional information available

#### 1.3. Name, Address, and Telephone of the Responsible Party

##### Company

Morton Salt, Inc

40 Corporate Woods

9401 Indian Creek Parkway, Suite 1500

Overland Park, KS 66210

T: 913-391-7258

[www.mortonsalt.com](http://www.mortonsalt.com)

#### 1.4. Emergency Telephone Number

**Emergency Number** : 913-391-7258

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the Substance or Mixture

**GHS-US/CA Classification**

Not classified.

#### 2.2. Label Elements

**GHS-US/CA Labeling**

No labeling applicable according to 29 CFR 1910.1200 and the Hazardous Products Regulations (HPR) SOR/2022-272.

#### 2.3 Hazards associated with known or reasonably anticipated uses

If this product is used in unforeseeable chemical processes and not used as intended or reasonable, the hazards listed in Section 2.3 cannot cover all chemistries. Therefore, a Process Hazard Analysis (PHA) or other hazard assessment for additional specific end uses should be performed to ensure that hazards are fully understood, and adequate safety measures are in place. See Section 10 for relevant reactivity and stability information.

#### 2.4. Other Hazards

Will react with strong acids to generate hydrogen chloride and with strong oxidizing agents to generate chlorine gas. Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

#### 2.5 Unknown Acute Toxicity (GHS-US/CA)

No additional information available

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substance

| Name               | Synonyms                                                                                                          | Product Identifier  | % *    | GHS Ingredient Classification |
|--------------------|-------------------------------------------------------------------------------------------------------------------|---------------------|--------|-------------------------------|
| Potassium chloride | Potassium chloride (KCl) /<br>POTASSIUM CHLORIDE /<br>Hydrochloric acid, potassium<br>salt                        | (CAS-No.) 7447-40-7 | > 99.6 | Not classified.               |
| <b>Contains:</b>   |                                                                                                                   |                     |        |                               |
| Sodium chloride    | Sea salt / Sodium chloride<br>(NaCl) / SODIUM CHLORIDE /<br>Sodium salt of hydrochloric<br>acid / Salt / SEA SALT | (CAS-No.) 7647-14-5 | < 0.15 | Not classified.               |

#### 3.2. Mixture

Not applicable

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### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of First-aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** Using proper respiratory protection, immediately move the exposed person to fresh air. Encourage exposed person to cough, spit out, and blow nose to remove dust. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

#### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**General:** Not expected to present a significant hazard under anticipated conditions of normal use.

**Inhalation:** Prolonged exposure may cause irritation.

**Skin Contact:** Skin contact with large amounts of dust may cause mechanical irritation.

**Eye Contact:** Eye contact with dust may cause mechanical irritation.

**Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

#### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

#### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Product is not flammable.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

#### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Sodium oxides. Potassium oxides.

#### 5.4. Reference to Other Sections

Refer to Section 9 for flammability properties.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid prolonged contact with eyes, skin and clothing. Avoid breathing dust.

##### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

##### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

#### 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

#### 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Recover the product by vacuuming, shoveling or sweeping. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

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### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** Will react with strong acids to generate hydrogen chloride and with strong oxidizing agents to generate chlorine gas.

**Precautions for Safe Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing dust.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Material is hygroscopic. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in a dry, cool place. Store in accordance with local regulations. May form steep piles that can collapse without warning when transported or stored in bulk. This may damage equipment and endanger workers. The risk of cliffing and sudden collapse increases if product is loaded or stored when hot or in high humidity conditions. Avoid forming steep slopes when removing product. If product has caked, cliffed, or has adhered to the storage or transport container, stay out of the potential engulfment zone in case the material collapses. Do not enter bins, railcars or trucks without conducting a risk assessment and following all confined space entry requirements. Ensure that consideration is given to fall protection and mobile equipment securement if applicable. Carefully loosen the set product from outside the container using mechanical vibration, sledge hammers, or other devices. Ensure that bulk bags or smaller packaged products stored in tiers are stacked, racked, blocked, interlocked, or otherwise secured to prevent sliding, rolling, or collapse. Use caution when opening truck or railcar doors as product may have shifted during transport.

**Incompatible Materials:** Avoid prolonged contact with metals. Strong acids, strong bases, strong oxidizers.

**Storage Area:** Must be stored in a dry location. Absorbs moisture on long-term storage under high humidity conditions. Store away from incompatible materials (see Section 10). When product is stored in sealable containers, keep container tightly closed and sealed until ready for use. Sealable containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

### 7.3. Specific End Use(s)

Water Softener Ion Exchange Resin Regeneration.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

### 8.2. Exposure Controls

**Appropriate Engineering Controls:** Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Gloves. Protective clothing. Protective goggles.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear protective gloves.

**Eye and Face Protection:** Chemical safety goggles or safety glasses with side shields.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

**Other Information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

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|                                        |                                       |
|----------------------------------------|---------------------------------------|
| Physical State                         | : Solid                               |
| Color                                  | : White Compressed Pellet             |
| Odor                                   | : Odorless                            |
| Odor Threshold                         | : No data available                   |
| pH                                     | : 7 [Conc. (% w/w): 10%]              |
| Evaporation Rate                       | : No data available                   |
| Melting Point                          | : No data available                   |
| Freezing Point                         | : 770 °C (1418 °F)                    |
| Boiling Point                          | : 1420 °C (2588 °F)                   |
| Flash Point                            | : Product Does not Sustain Combustion |
| Auto-ignition Temperature              | : No data available                   |
| Decomposition Temperature              | : No data available                   |
| Flammability (solid, gas)              | : No data available                   |
| Lower Flammable Limit                  | : No data available                   |
| Upper Flammable Limit                  | : No data available                   |
| Vapor Pressure                         | : No data available                   |
| Relative Vapor Density at 20°C         | : No data available                   |
| Relative Density                       | : No data available                   |
| Specific Gravity                       | : Not available                       |
| Solubility                             | : Water: 347 g/l                      |
| Partition Coefficient: N-Octanol/Water | : No data available                   |
| Viscosity, Kinematic                   | : No data available                   |
| Particle characteristics               | : No data available                   |
| Viscosity                              | : Not available                       |

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity:

Hazardous reactions will not occur under normal conditions.

### 10.2. Chemical Stability:

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of Hazardous Reactions, Including those Associated with Foreseeable Emergencies:

Hazardous polymerization will not occur.

### 10.4. Conditions to Avoid:

Incompatible materials. Direct sunlight, extremely high or low temperatures, and incompatible materials. Avoid creating or spreading dust.

### 10.5. Incompatible Materials:

Avoid prolonged contact with metals. Strong acids, strong bases, strong oxidizers.

### 10.6. Hazardous Decomposition Products:

None expected under normal conditions of use.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects - Product

Likely routes of exposure: Dermal, Eye Contact, Inhalation, Oral.

Acute Toxicity (Oral): Not classified.

Acute Toxicity (Dermal): Not classified.

Acute Toxicity (Inhalation): Not classified.

LD50 and LC50 Data: No additional information available

Skin Corrosion/Irritation: Not classified.

Eye Damage/Irritation: Not classified.

Respiratory or Skin Sensitization: Not classified.

Germ Cell Mutagenicity: Not classified.

Carcinogenicity: Not classified.

Specific Target Organ Toxicity (Repeated Exposure): Not classified.

Reproductive Toxicity: Not classified.

Specific Target Organ Toxicity (Single Exposure): Not classified.

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**Aspiration Hazard:** Not classified.

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation.

**Symptoms/Injuries After Skin Contact:** Skin contact with large amounts of dust may cause mechanical irritation.

**Symptoms/Injuries After Eye Contact:** Eye contact with dust may cause mechanical irritation.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

### 11.2. Information on Toxicological Effects - Ingredient(s)

**LD50 and LC50 Data:**

|                                       |                                                 |
|---------------------------------------|-------------------------------------------------|
| <b>Potassium chloride (7447-40-7)</b> |                                                 |
| LD50 Oral Rat                         | 3020 mg/kg (Species: Wistar)                    |
| <b>Sodium chloride (7647-14-5)</b>    |                                                 |
| LD50 Oral Rat                         | 3550 mg/kg (Species: Wistar)                    |
| LD50 Dermal Rabbit                    | > 10000 mg/kg (Species: New Zealand White)      |
| LC50 Inhalation Rat                   | > 42 mg/l (Exposure time: 1 h Source: ECHA_API) |

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecology - General:** Not classified.

|                                       |                                                                                             |
|---------------------------------------|---------------------------------------------------------------------------------------------|
| <b>Potassium chloride (7447-40-7)</b> |                                                                                             |
| LC50 Fish 1                           | 1060 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)         |
| EC50 - Crustacea [1]                  | 825 mg/l (Exposure time: 48 h - Species: Daphnia magna)                                     |
| LC50 Fish 2                           | 750 (750 – 1020) mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])         |
| EC50 - Crustacea [2]                  | 660 mg/l (Exposure time: 48 h - Species: Daphnia magna)                                     |
| <b>Sodium chloride (7647-14-5)</b>    |                                                                                             |
| LC50 Fish 1                           | 5560 (5560 – 6080) mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through]) |
| EC50 - Crustacea [1]                  | 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)                                    |
| LC50 Fish 2                           | 12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)        |
| EC50 - Crustacea [2]                  | 340.7 (340.7 – 469.2) mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])          |
| NOEC Chronic Fish                     | 252 mg/l (Species: Pimephales promelas)                                                     |

### 12.2. Persistence and Degradability

|                                   |                  |
|-----------------------------------|------------------|
| <b>Potassium Chloride Pellets</b> |                  |
| Persistence and Degradability     | Not established. |

### 12.3. Bioaccumulative Potential

|                                    |                      |
|------------------------------------|----------------------|
| <b>Potassium Chloride Pellets</b>  |                      |
| Bioaccumulative Potential          | Not established.     |
| <b>Sodium chloride (7647-14-5)</b> |                      |
| BCF Fish 1                         | (no bioaccumulation) |

### 12.4. Mobility in Soil

No additional information available

### 12.5. Other Adverse Effects

**Other Information:** Avoid unnecessary release into the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste Treatment Methods:** Can be landfilled, when in compliance with local regulations.

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations, Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

**Ecology - Waste Materials:** Avoid unnecessary release into the environment.

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### SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

#### 14.1. In Accordance with DOT

Not regulated for transport

#### 14.2. In Accordance with IMDG

Not regulated for transport

#### 14.3. In Accordance with IATA

Not regulated for transport

#### 14.4. In Accordance with TDG

Not regulated for transport

### SECTION 15: REGULATORY INFORMATION

#### 15.1. US Federal Regulations

##### Potassium chloride (7447-40-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

##### Sodium chloride (7647-14-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

#### 15.2. US State Regulations

Neither this product nor its chemical components appear on any US state lists, or its chemical components are not required to be disclosed.

#### 15.3. Canadian Regulations

##### Potassium chloride (7447-40-7)

Listed on the Canadian DSL (Domestic Substances List)

##### Sodium chloride (7647-14-5)

Listed on the Canadian DSL (Domestic Substances List)

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest : 04/30/2026

#### Revision

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2022-272.

### Glossary of Data Source Abbreviations

ATSDR: Agency for Toxic Substances and Disease Registry (U.S. Department of Health and Human Services)

AU\_WES: Australia WES

CHEMVIEW: ChemView (U.S. Environmental Protection Agency)

EC\_RAR: European Commission Renewal Assessment Report

EC\_SCOEL: European Commission Scientific Committee on Occupational Exposure Limits

ECETOC: European Centre for Ecotoxicology and Toxicology of Chemicals Reports

ECHA\_API: European Chemicals Agency API

ECHA\_RAC: ECHA Committee for Risk Assessment

EFSA: European Food Safety Authority

EPA: U.S. Environmental Protection Agency

EPA\_AEGL: Acute Exposure Guideline Levels (U.S. Environmental Protection Agency)

EPA\_FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act Reregistration Eligibility Decision (U.S. Environmental Protection Agency)

EPA\_HPVC: High Production Volume Chemicals (U.S. Environmental Protection Agency)

EPA\_TRED: Risk Assessment for Tolerance Reassessment Eligibility Decision (U.S. Environmental Protection Agency)

EU\_CLH: European Union Harmonised Classification and Labelling Proposal

EU\_RAR: European Union Risk Assessment Report

FOOD\_JOURN: Food Research Journal (1956)

IARC: The International Agency for Research on Cancer

IDLH: National Institute for Occupational Health and Safety Immediately

Dangerous to Life or Health Value Profiles

IUCLID: International Uniform Chemical Information Database

JAPAN\_GHS: Japan GHS Basis for Classification Data

JP\_J-CHECK: Japan J-Check

KR\_NIER: South Korea National Institute of Environmental Research Evaluations  
NICNAS: Australia National Industrial Chemicals Notification and Assessment Scheme

NIOSH: National Institute for Occupational Health and Safety (U.S. Department of Health and Human Services)

NLM\_CIP: National Library of Medicine ChemID plus database

NLM\_HSDB: National Library of Medicine Hazardous Substance Data Bank

NLM\_PUBMED: National Library of Medicine PubMed database

NTP: National Toxicology Program

NZ\_CCID: New Zealand Chemical Classification and Information Database

OECD\_EHSP: Environment, Health, and Safety Publication (Organisation for Economic Co-operation and Development)

OECD\_SIDS: Screening Information Data Sets (Organisation for Economic Co-operation and Development)

WHO: World Health Organization

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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

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