# Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

## Section 1: Identification

**Product Name** Sodium Chloride USP Granular
**Commercial Name** Salt
**Product Use** Food,Chemical & Drug Processing;Pharmaceuticals;Water Conditioning; Ice Control; Chemical Feedstock
**Restrictions On Use** Not available.

**Product Code** 30-1087

**Company**
PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
**CHEMTREC (24hr) 1-800-424-9300**

## Section 2: Hazard(s) Identification

**OSHA Haz Com: CFR 1910.1200** Not available.

**Signal Word** NON-HAZARDOUS

**Hazard Statement(s)** Not available.

**Pictogram(s) or Symbol(s)**

**Precautionary Statement(s):**

**Prevention** Not available.
**Response** Not available.
**Storage** Not available.
**Disposal** Not available.

## Section 3: Composition/Information on Ingredients

**Substance/Mixture** Substance
**Components** Sodium Chloride
**% By Weight** 100
**CAS#** 7647-14-5
**Molecular Weight** 58.44 g/mole
**Chemical Formula** NaCl
**Synonym(s)** Salt; Sea Salt

**Mixtures**

| Name | CAS# | % by Weight | TLV/PEL | LC50/LD50 |
|---|---|---|---|---|
| Sodium Chloride | 7647-14-5 | 100 | Not available. | ORAL (LD50): Acute: 3000 mg/kg [Rat.]. 4000 mg/kg [Mouse].<br>DERMAL (LD50): Acute: >10000 mg/kg [Rabbit].<br>DUST (LC50): Acute: >42000 mg/m3 1 hours [Rat]. |

## Section 4: First-Aid Measures

**Inhalation** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

**Skin Contact** Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

**Eye Contact** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

**Ingestion** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

**Symptoms/Effects**

**Acute** Inhalation:Under normal conditions of use, no health effects are expected. Inhalation of dust may cause mild irritation to mucous membranes, nose and throat. Symptoms may include coughing, dryness and sore throat. Eye:Based upon practical use and experience using this product eye irritation is not expected to occur Ingestion:Ingestion may cause the following symptoms - diarrhea.

**Delayed** Not available.

**Immediate Medical Attention**

Notes to Physician: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## Section 5: Fire-Fighting Measures

**Suitable Extinguishing Media**

Material is non-combustible. In case of fire use media as appropriate for surrounding fire.

**Unsuitable Extinguishing Media**

Not available.

**Products of Combustion**

Product is non - combustible; no extinguishing media or special fire - fighting procedures are required.

**Firefighters Special Equipment and Precautions**

Structural firefighters' protective clothing will only provide limited protection.Wear positive pressure self-contained breathing apparatus (SCBA).

## Section 6: Accidental Release Measures

Personal Precautions :Wear suitable protective clothing, gloves, and eye/face protection. Emergency Procedures : Stop leak if you can do it without risk. Keep unauthorized personnel away. Use normal clean up procedures Containment/Clean-up Measures: Carefully shovel or sweep up spilled material and place in suitable container.

## Section 7: Handling and Storage

Precautions: Keep locked up.. Do not ingest. Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids. Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Hygroscopic

## Section 8: Exposure Controls/Personal Protection

**Exposure Limits** Not available.

**Engineering Controls** Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection** Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent.Gloves. In case of Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

## Section 9: Physical and Chemical Properties

| | |
|---|---|
| **Appearance** | Solid. (Solid crystalline powder.) Color: White |
| **Odor** | Slight |
| **Odor Threshold** | Not available. |

| | | | |
|---|---|---|---|
| **Melting Point** | 801°C (1473.8°F) | **pH** | About 7 |
| **Freezing Point** | Not available. | **Vapor Pressure** | 1 mm @ 865 °C (1589 °F) |
| **Boiling Point/Range** | 1413°C (2575.4°F) | **Vapor Density** | Not available. |
| **Decomposition temperature** | Not available. | **Viscosity** | Not available. |
| **Partition Coefficient: n-octanol/water** | Not available. | **Evaporation Rate** | Not available. |
| **Flash Point** | Not applicable. | **Autoignition temperature** | Not available. |
| **Flammability** | Not available. | **Flammability or Explosive Limits:** | |
| | | **Lower** | Not available. |
| | | **Upper** | Not available. |

| | |
|---|---|
| **Solubility(ies)** | Easily soluble in cold water, hot water. Soluble in glycerol, and ammonia. Very slightly soluble in alcohol. Insoluble in Hydrochloric Acid. |
| **Other** | Not available. |

## Section 10: Stability and Reactivity

| | |
|---|---|
| **Reactivity** | Not available. |
| **Chemical Stability** | The product is stable. |
| **Hazardous Polymerization** | Hazardous polymerization will not occur. |
| **Conditions to Avoid** | Incompatible materials, high temperatures. |
| **Incompatible Materials** | Reactive with oxidizing agents, metals, acids. |
| **Hazardous Decomposition Products** | Will react with strong acids to generate hydrogen chloride and with strong oxidizing agents to generate chlorine gas. |

## Section 11: Toxicological Information

**RTECS** VZ4725000

**Acute Toxicity**

WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 3000 mg/kg [Rat.]. Acute dermal toxicity (LD50): >10000 mg/kg [Rabbit]. Acute toxicity of the dust (LC50): >42000 mg/m3 1 hours [Rat]. Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. Lowest Published Lethal Dose (LDL) [Man] - Route: Oral; Dose: 1000 mg/kg Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: Causes eye irritation. Ingestion: Ingestion of large quantities can irritate the stomach (as in overuse of salt tablets) with nausea and vomiting. May affect behavior (muscle spasicity/contraction, somnolence), sense organs, metabolism, and cardiovascular system. Continued exposure may produce dehydration, internal organ congestion, and coma. Inhalation: Material is irritating to mucous membranes and upper respiratory tract. Causes adverse reproductive effects in humans (fetotoxicity, abortion, ) by intraplacental route. High intake of sodium chloride, whether from occupational exposure or in the diet, may increase risk of TOXEMIA OF PREGNANCY in susceptible women (Bishop, 1978). Hypertonic sodium chloride solutions have been used to induce abortion in late pregnancy by direct infusion into the uterus (Brown et al, 1972), but this route of administration is not relevant to occupational exposures. May cause adverse reproductive effects and birth defects in animals, particularly rats and mice (fetotoxicity, abortion, musculoskeletal abnormalities, and maternal effects (effects on ovaries, fallopian tubes) by oral, intraperitoneal, intraplacental, intrauterine, parenteral, and subcutaneous routes. While sodium chloride has been used as a negative control n some reproductive studies, it has also been used as an example that almost any chemical can cause birth defects in experimental animals if studied under the right conditions (Nishimura & Miyamoto, 1969). In experimental animals, sodium chloride has caused delayed effects on newborns, has been fetotoxic, and has caused birth defects and abortions in rats and mice (RTECS, 1997). May affect genetic material (mutagenic).

**Skin Corrosion/Irritation**
Mild skin irritant.

**Serious Eye Damage/Irritation**
Moderate irritant.

**Respiratory or Skin Sensitization**
Inhalation of dust may cause mild irritation to mucous membranes, nose and throat. Symptoms may include coughing, dryness and sore throat.

**Germ Cell Mutagenicity**
Not available.

**Carcinogenicity**
Not available.

**Reproductive Toxicity**
Not available.

**Routes of Entry**
Inhalation. Ingestion.

**Symptoms Related to Exposure**
Not available.

**Potential Health Effects**
Not available.

**Target Organ(s)** Not available.

## Section 12: Ecological Information

**Ecotoxicity**
Material data lacking.

**Persistance and Degradability**
Material data lacking.

**Bioaccumulative Potential**
Material data lacking.

**Mobility in Soil**
Material data lacking.

**Other Adverse Effects**
Material data lacking.

## Section 13: Disposal Considerations

**Waste Disposal**
Product waste :Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Packaging waste : Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Disposal of Container**
Not available.

**Other Considerations**
Not available.

## Section 14: Transport Information

**DOT Classification**
DOT Not a DOT controlled material (United States). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

## Section 15: Regulatory Information

**Regulations**

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312). Components present in this product at a level which could require reporting under the statute are: NONE Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual report release of toxic chemicals that appear in 40 CFR 372 (used for SARA 313). This information must be included in all MSDSs that are copied and distributed for this material. Components present in this product at a level which could require reporting under the statute are: NONE;California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Sodium chloride

**Other**

WHMIS Not controlled under WHMIS (Canada). (Canada);DSCL (EEC) R36/38- Irritating to eyes and skin.;Gloves.;Lab coat.;Dust respirator. Be sure to use an approved/certified respirator or equivalent.;Splash goggles.

## Section 16: Other Information

Disclaimer/Statement of Liability:The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations. Nothing contained herein is to be construed as a recommendation for use in violation of any patents or of applicable laws or regulations.