



Safety Data Sheet

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

Sodium Chloride USP Granular

30-1087

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: Not available.
CFR 1910.1200
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]. DERMAL (LD50): Acute: >10000 mg/kg [Rabbit]. DUST (LC50): Acute: >42000 mg/m3 1 hours [Rat].

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Section 4: First-Aid Measures

Inhalation	When symptoms occur; go into open air and ventilate suspected area. 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.
Symptoms/Effects	
Acute	General: Not expected to present a significant hazard under anticipated conditions of normal use. Dust may cause mechanical irritation to eyes, nose, throat and lungs. Inhalation: Prolonged exposure may cause irritation. Skin Contact: Prolonged exposure may cause skin irritation. Eye Contact: May cause slight irritation to eyes. Ingestion: Ingestion may cause adverse effects. Chronic Symptoms: None expected under normal conditions of use.
Delayed	Not available.

Immediate Medical Attention

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**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.

Products of Combustion

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

Products: Sodium Oxides, Hydrogen Chloride

Firefighters Special Equipment and Precautions

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

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 for Safe Handling: Avoid prolonged contact with eyes, skin and clothing. Avoid breathing dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Hygiene measures: Handle in accordance with good industrial hygiene and safety procedures. Safe Storage: Technical Measures: Comply with applicable regulations. Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Incompatible Materials: Strong oxidizers, Bromine trifluoride. Molten lithium.

Section 8: Exposure Controls/Personal Protection

Exposure Limits	Not available.
Engineering Controls	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.



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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	Odorless		
Odor Threshold	Not available.		
Melting Point	Not available	pH	About 7
Freezing Point	Not available.	Vapor Pressure	Not available
Boiling Point/Range	Not available	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	Hazardous reactions will not occur under normal conditions.
Chemical Stability	Stable under recommended handling and storage conditions.
Hazardous Polymerization	Hazardous polymerization will not occur.
Conditions to Avoid	Direct sunlight, extremely high or low temperatures, and incompatible materials.
Incompatible Materials	Strong oxidizers, Bromine trifluoride. Molten lithium
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 spasticity/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 in 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).

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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.

Persistence 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**



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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.