

SAFETY DATA SHEET  
**Sodium Chloride**

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**SECTION 1: IDENTIFICATION**

**Product identifier:** Sodium  
Chloride

**Recommended restrictions Recommended use:** For Laboratory,  
Research or Manufacturing Use.  
**Restrictions on use:** Not determined.

**Details of the supplier of the safety data sheet**

Company:

CEM Corporation  
3100 Smith Farm Road  
Matthews, NC 28104

Telephone: 704-821-7015  
Fax: 704-821-7894

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**SECTION 2: HAZARD(S) IDENTIFICATION**

**Hazard Classification**

Health Hazards  
Serious Eye Damage/Eye Irritation Category 2A

**Unknown toxicity - Health**

Acute toxicity, inhalation, dust or mist 100%

**Label Elements**

Hazard Symbol



Signal Word: Warning  
Hazard Statement: Causes serious eye irritation.

**Precautionary Statements**



Prevention: Wash hands thoroughly after handling. Wear eye protection/face protection.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Hazard(s) not otherwise classified (HNOC): None

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Chemical Identity	CAS number	Content in percent (%)*
Sodium chloride	7647-14-5	100%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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### SECTION 4: FIRST-AID MEASURES

**General information:** Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

**Ingestion:** Rinse mouth thoroughly. Call a POISON CENTER/doctor if you feel unwell.

**Inhalation:** Move to fresh air. Get medical attention if symptoms persist.

**Skin Contact:** Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing. Wash contaminated clothing before reuse.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if symptoms occur.

**Most important symptoms/effects, acute and delayed**

**Symptoms:** Causes serious eye irritation.

**Hazards:** None known.

**Indication of immediate medical attention and special treatment needed**

**Treatment:** Treat symptomatically. Symptoms may be delayed.



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## SECTION 5: FIRE-FIGHTING MEASURES

**General Fire Hazards:** No unusual fire or explosion hazards noted.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media:** None known.

**Specific hazards arising from the chemical:** During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. In case of fire and/or explosion do not breathe fumes.

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Keep unauthorized personnel away. Keep upwind. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the SDS for Personal Protective Equipment.

**Methods and material for containment and cleaning up:** Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.

**Notification Procedures:** Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.

**Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

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## SECTION 7: HANDLING AND STORAGE

**Precautions for safe handling:** Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Avoid inhalation of dust. Wash thoroughly after handling.

**Conditions for safe storage, including any incompatibilities:** Keep containers tightly closed. Store in cool, dry place. Store in a wellventilated place.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION



**Control Parameters Occupational Exposure Limits:** None of the components have assigned exposure limits.

**Appropriate Engineering Controls:** No data available.

**Individual protection measures, such as personal protective equipment**

**General information:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Eye/face protection:** Use tight fitting goggles if dust is generated.

**Skin Protection**

**Hand Protection:** Wear protective gloves.

**Other:** Wear suitable protective clothing.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator.

**Hygiene measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Physical state: Solid

Form: Crystals or powder.

Color: White

Odor: Odorless

Odor threshold: No data available.

pH: 6.7 - 7.3

Melting point/freezing point: 801 °C

Initial boiling point and boiling range: 1,465 °C

Flash Point: Not applicable

Evaporation rate: No data available.

Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%): No data available.

Flammability limit - lower (%): No data available.

Explosive limit - upper (%): No data available.

Explosive limit - lower (%): No data available.

Vapor pressure: 0.13 hPa (865 °C)

Vapor density: No data available.

Density: 2.16 g/ml (25 °C)

Relative density: 2.16 (25 °C)

Solubility(ies)

Solubility in water: 360 g/l (25 °C)

Solubility (other): Ethanol.: 6.5 g/l (25 °C) glycerol: 100 g/l

Partition coefficient (n-octanol/water): No data available.

Auto-ignition temperature: No data available.

Decomposition temperature: No data available.



Viscosity: No data available.

Other information

Bulk density: 1,360 kg/m<sup>3</sup>

Molecular weight: 58.44 g/mol (ClNa)

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## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** No dangerous reaction known under conditions of normal use.

**Chemical Stability:** Material is stable under normal conditions.

**Possibility of hazardous reactions:** Hazardous polymerization does not occur.

**Conditions to avoid:** Contact with incompatible materials. Excessive heat.

**Incompatible Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** No data available.

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## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Inhalation: May cause irritation to the respiratory system.

Skin Contact: Prolonged skin contact may cause temporary irritation.

Eye contact: Causes serious eye irritation.

Ingestion: May be harmful if swallowed.

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

Oral Product: LD 50 (Rat): 3,000 - 4,000 mg/kg

Dermal Product: LD 50 (Rabbit) > 10,000 mg/kg

Inhalation Product: LC 50 (Rat, 1 h) > 42 mg/l

#### Repeated dose toxicity

Product: No data available.

#### Skin Corrosion/Irritation

Product: Prolonged skin contact may cause temporary irritation.

#### Serious Eye Damage/Eye Irritation

Product: Causes serious eye irritation.

#### Respiratory or Skin Sensitization

Product: Not a skin nor a respiratory sensitizer.

#### Carcinogenicity

Product: This substance has no evidence of carcinogenic properties.

#### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

#### US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):



No carcinogenic components identified

**Germ Cell Mutagenicity**

In vitro

Product: No mutagenic components identified

In vivo

Product: No mutagenic components identified

Reproductive toxicity

Product: No components toxic to reproduction

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: Not classified

Other effects: None known.

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**SECTION 12: ECOLOGICAL INFORMATION (NON-MANDATORY)**

**Ecotoxicity:**

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: EC 50 (Water flea (*Daphnia magna*), 48 h): 340.7 mg/l

**Chronic hazards to the aquatic environment:**

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

**Persistence and Degradability**

Biodegradation

Product: This material is readily biodegraded and is not likely to bioconcentrate.

BOD/COD Ratio

Product: No data available.

**Bioaccumulative potential**

Bioconcentration Factor (BCF)

Product: Potential to bioaccumulate is low.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Mobility in soil: The product is water soluble and may spread in water systems.

Other adverse effects: The product components are not classified as environmentally hazardous.

However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

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### **SECTION 13: DISPOSAL CONSIDERATIONS (NON-MANDATORY)**

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local laws.

Contaminated Packaging: Since emptied containers retain product residue, follow label warnings even after container is emptied.

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### **SECTION 14: TRANSPORT INFORMATION (NON-MANDATORY)**

DOT

Not regulated.

IMDG

Not regulated.

IATA

Not regulated.

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### **SECTION 15: REGULATORY INFORMATION (NON-MANDATORY)**

#### **US Federal Regulations**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

#### **US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

None present or none present in regulated quantities.

#### **CERCLA Hazardous Substance List (40 CFR 302.4):**

None present or none present in regulated quantities.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

Hazard categories: Serious eye damage or eye irritation

SARA 302 Extremely Hazardous Substance: None present or none present in regulated quantities.

SARA 304 Emergency Release Notification: None present or none present in regulated quantities.

**SARA 311/312 Hazardous Chemical**

Chemical Identity	Threshold Planning Quantity
Sodium chloride	10000 lbs.

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):

None present or none present in regulated quantities.

**US State Regulations**

US. California Proposition 65: No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act: No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List: No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances: No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK: No ingredient regulated by RI Right-to-Know Law present.

**International regulations**

Montreal protocol: Not applicable

Stockholm convention: Not applicable

Rotterdam convention: Not applicable

Kyoto protocol: Not applicable

Inventory Status:

Australia AICS: On or in compliance with the inventory

Canada DSL Inventory List: On or in compliance with the inventory

China Inv. Existing Chemical Substances: On or in compliance with the inventory

Japan (ENCS) List: On or in compliance with the inventory

Japan ISHL Listing: On or in compliance with the inventory

Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory

Mexico INSQ: On or in compliance with the inventory

New Zealand Inventory of Chemicals: On or in compliance with the inventory

Philippines PICCS: On or in compliance with the inventory

Taiwan Chemical Substance Inventory: On or in compliance with the inventory

US TSCA Inventory: On or in compliance with the inventory

EINECS, ELINCS or NLP: On or in compliance with the inventory

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**SECTION 16: OTHER INFORMATION**





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